

GENERAL NOTES CONCRETE NOTES STEEL NOTES 7. CONSTRUCTION ENGINEERING: SECTION 3 - STRUCTURAL CONCRETE SECTION 1 – GENERAL REQUIREMENTS SECTION 5 – METALS 7A. THE STRUCTURE DEFINED ON THE CONTRACT DOCUMENTS HAS BEEN DESIGNED ONLY FOR 1. CONNECTIONS: . GENERAL: LOADS ANTICIPATED ON THE STRUCTURE DURING ITS SERVICE LIFE. PROVIDE ALL REQUIRED 1A. ALL WORK SHALL CONFORM WITH ACI 301, LATEST EDITION, UNLESS NOTED OTHERWISE IN 1A. PROVIDE CONNECTIONS AS SHOWN IN THE DETAILS HEREIN. REFER TO SPECIFICATION FOR 1A. ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER' MEAN THE ENGINEERING AND OTHER MEASURES TO ACHIEVE THE MEANS, METHODS, AND SEQUENCES OF DRAWINGS OR PROJECT SPECIFICATIONS. ALTERNATIVES AND CONNECTIONS NOT SHOWN.\ STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS WORK. SUCH ENGINEERING MAY INCLUDE, BUT IS NOT LIMITED TO: 1B. DETAIL BARS IN ACCORDANCE WITH THE LATEST EDITIONS OF PUBLICATION SP-66: "ACI 1B. ALL BOLTS SHALL BE 3/4"Ø ASTM A325N UNO. "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC. ERECTION PROCEDURES WHICH ADDRESS STABILITY OF THE FRAME DURING CONSTRUCTION DETAILING MANUAL" WITH ADDED REQUIREMENTS OF THE PROJECT SPECIFICATION AND ACI 318: "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE." 2. WELDING REQUIREMENTS: 1B. THESE NOTES SUPPLEMENT THE SPECIFICATIONS, WHICH SHALL BE REFERENCED FOR ADDITIONAL REQUIREMENTS. DESIGN OF TEMPORARY BRACING OF WALLS FOR WIND OR SEISMIC 2A. WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE A.W.S. REINFORCING MATERIALS: SURVEYING TO VERIFY CONSTRUCTION TOLERANCES QUALIFICATION TESTS. EVALUATION OF TEMPORARY CONSTRUCTION LOADS ON STRUCTURE DUE TO EQUIPMENT AND 1C. STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS 2A. SEE 'REINFORCING MATERIALS TABLE' UNLESS DIMENSIONED OTHERWISE. MATERIALS 2B. MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS STRUCTURAL ENGINEERING TO RESIST ANY OTHER LOADS NOT IDENTIFIED ON DESIGN 3. REINFORCING FABRICATION: OTHERWISE NOTED. DRAWINGS 3A. SPLICES: 2. EXISTING STRUCTURES: 2A. CONTRACT DOCUMENTS HAVE BEEN PREPARED USING AVAILABLE DRAWINGS AND SITE NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. WHERE 2C. WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE OBSERVATION AS PERMITTED BY ACCESS RESTRICTIONS DURING DESIGN. 8. COORDINATION: PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE. 8A. STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED 2B. DURING CONSTRUCTION, THE CONTRACTOR MAY ENCOUNTER EXISTING CONDITIONS WHICH IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM 2D. WELD SIZES SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY ANSI/AISC 360-05 3B. MISCELLANEOUS REINFORCING REQUIREMENTS: ARE NOT NOW KNOWN OR ARE AT VARIANCE WITH PROJECT DOCUMENTATION. CONTRACTOR SHALL OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE PROVIDE ADDITIONAL BARS OR STIRRUPS AS REQUIRED TO SECURE REINFORCING IN PLACE TABLES J2.3 AND J2.4. NOTIFY THE ARCHITECT OF ALL CONDITIONS NOT PER THE CONTRACT DOCUMENTS. EXAMPLES CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK. DURING CONCRETE PLACEMENT. INCLUDE: MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED. 2E. ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED. SIZES OR DIMENSIONS OTHER THAN THOSE SHOWN 8B. COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4, LATEST EDITION. ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR 2F. FIELD WELDING SYMBOLS INDICATE SUGGESTED CONSTRUCTION PROCEDURES. DAMAGE OR DETERIORATION TO MATERIALS AND COMPONENTS CONDITIONS OF INSTABILITY OR LACK OF SUPPORT TO SHOP DRAWING SUBMITTAL. ITEMS NOTED AS EXISTING ON THE DRAWINGS BUT NOT FOUND IN THE FIELD 4. STRUCTURAL CONCRETE MIX REQUIREMENTS: 4A. SEE 'CONCRETE MIX TABLE' 8C. SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE 4A. CAMBER SHOWN IS BASED ON THE COMPUTED DEFLECTION OF THE BEAM DUE TO 2C. PREPARE DIMENSIONAL DRAWINGS OF ALL DISCOVERED ITEMS. CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE SELFWEIGHT AND DEAD LOADS. LOAD DEFLECTIONS OF SPAN/240 OF THE ROOF FRAMING. DO NOT MAKE RIGID VERTICAL AND 5. NON-SHRINK GROUT: 2D. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STRUCTURAL CONDITIONS PRIOR TO 4B. VALUE NOTED ON PLAN IS IN-PLACE CAMBER. AFTER ERECTION. ADJUST FABRICATION AS HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE WALL. 5A. CONFORM TO ASTM C1107, GRADES B, OR C. SUBMITTING SHOP DRAWINGS. REQUIRED TO ACHIEVE CAMBER SPECIFIED WITHIN TOLERANCES. 9. DRAWINGS STAMPED OR NOTED AS "NOT FOR CONSTRUCTION" ARE PRELIMINARY AND 5B. ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS. 2E. CONTRACTOR SHALL MAKE ALLOWANCE FOR THE RESOLUTION OF SUCH DISCOVERIES IN THE 5. STRUCTURAL STEEL INSTALLATION: SUBJECT TO CHANGE. CONSTRUCTION SCHEDULE. 6. PLACING REINFORCEMENT: 5A. ALL HIGH STRENGTH BOLTS USED IN CONNECTIONS OF BEAMS AND GIRDERS TO COLUMNS 10. USE THE MOST CURRENT DRAWINGS IN PREPARATION OF SUBMITTALS. ALL SUBMITTALS **6A. REINFORCEMENT PROTECTION** AND WHERE NOTED ON THE DRAWINGS AS TYPE "SC" OR OTHER TYPE FOLLOWED BY "PT", SHALL 2F. SUBMIT A DIMENSIONED DRAWING OF ALL NEW OPENINGS THROUGH EXISTING STRUCTURE AND SHALL LIST DATE OF DRAWINGS USED TO PREPARE THE SUBMITTAL SEE 'CONCRETE COVER TABLE' BE TENSIONED TO THE VALUES OF TABLE J3.1 OF ANSI/AISC 360-05. OTHER HIGH-STRENGTH SECURE APPROVAL PRIOR TO CUTTING. DRAWING SHALL SHOW VERTICAL & HORIZONTAL LOCATION SEE ACI 318-05 7.5 FOR REINFORCEMENT PLACING TOLERANCES AND ACI 117 FOR ADDITIONAL BOLTS MAY BE INSTALLED SNUG TIGHT AS DEFINED BY AISC. REQUIREMENTS AND SIZE OF PROPOSED OPENING. 7. METAL DECK: USE OF DRAWINGS: 6B. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED 7A. SEE METAL DECK DETAILS FOR MATERIALS, PROFILE, AND CONNECTIONS TO STRUCTURE. 3A. DO NOT SCALE DRAWINGS. WIRE FABRIC AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. 7B. DECK DESIGN IS IN ACCORDANCE WITH STEEL DECK INSTITUTE (SDI) PUBLICATION NO. 31 AND 3B. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND "STABBING" INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED. DIAPHRAGM DESIGN MANUAL, LATEST EDITIONS. SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. DETAILS NOTED TYPICAL APPLY 7C. INSTALL DECK OVER 4 SUPPORTS (3 SPAN CONTINUOUS) UNLESS NOTED OTHERWISE. DO NOT TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL INSTALL DECK AS SINGLE SPAN UNLESS SPECIFICALLY SHOWN ON DRAWINGS. **CONCRETE MIX TABLE** CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT. 7D. PROVIDE DECK ATTACHMENTS AS NOTED ON DRAWINGS. 4. TEMPORARY CONDITIONS: 4A. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. THE CONTRACTOR 7E. HANGERS: SEE TYPICAL METAL DECK DETAILS FOR ALLOWABLE HANGER LOADS, SPACING IS RESPONSIBLE FOR FURNISHING ALL TEMPORARY BRACING AND/OR SUPPORT THAT MAY BE AND ATTACHMENT. REQUIRED AS THE RESULT OF THE CONTRACTOR'S CONSTRUCTION METHODS AND/OR SEQUENCES. REFER TO "LATERAL LOAD RESISTING SYSTEM DESCRIPTION" IN DESIGN CRITERIA FOR ADDITIONAL 8. STRUCTURAL COLD FORMED METAL FRAMING: 8A. REFER TO SCHEDULE FOR REQUIRED STUD MATERIAL GRADES AND SECTION PROPERTIES. 8B. REFER TO DETAILS FOR CONNECTIONS AND OTHER REQUIREMENTS. 4B. CONTRACTOR'S CONSTRUCTION AND/OR ERECTION SEQUENCES SHALL RECOGNIZE AND CONSIDER THE EFFECTS OF THERMAL MOVEMENTS OF STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PERIOD. STEEL MATERIAL TABLE 5. SUBMITTALS AND SUBSTITUTIONS: STEEL ELEMENT ASTM/TYPE Fv (KSI) Fu (KSI) COMMENTS 5A. SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS. **ADHESIVE** HILTI HY 150 MAX - IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS. IT SHALL BE OR EQUIV APPROVED BY THE ARCHITECT AND DESIGNED BY MARTIN/MARTIN, INC. PRIOR TO SUBMITTING A193 B7 ADHESIVE ANCHORS 125 THREADED ROD --SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL INTENDED USE F1554 GR 55 55 75 WELDABLE. HEAVY HEX HEADED COMPENSATE MARTIN/MARTIN, INC. FOR MAKING THE CHANGE. MECHANICAL UNIT PAD | 3 | NWC | 0.50 | 470 | 3/4 | 6 | 6 | II | AE, WRA CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS A325 OR F1852 120 BOLTS ARE 3/4"Ø UNO, USE AND SLAB INFILL ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL TENSION-CONTROLLED WHERE POSSIBLI USED TO PREPARE THE SUBMITTAL COLD-FORMED SUBMIT A STATEMENT OF RESPONSIBILITY FOR THE CONSTRUCTION OF THE LATERAL LOAD STUDS/PLATE. 16 GAGE **CONCRETE MIX TABLE NOTES:** RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH IBC SECTION 1706 OR HEAVIER a. FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE COLD-FORMED 33 NUMBERS PER ASTM C33: 5B. SUBSTITUTIONS: ARCHITECTS APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS STUDS/PLATE, 20-18 3/4": #67 AGGREGATE b. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR +/- 1 1/2%. 5C. NONCONFORMANCE: NOTIFY ARCHITECT OF CONDITIONS NOT CONSTRUCTED PER THE 33 COLD-FORMED TRACK. c. ABBREVIATIONS FOR REQUIRED ADMIXTURES AS FOLLOWS: CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED AE = AIR-ENTRAINING ADMIXTURE. DO NOT USE ENTRAINED AIR FOR STEEL TROWELED FINISHED LL GAGES REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE CONCRETE. 70 80 MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR. A496 WRA = WATER REDUCING ADMIXTURE. HILTI KWIK BOLT -- SUBMIT ICC EVALUATION REPORT EXPANSION ANCHORS d. FOR CONCRETE PLACED BY PUMPING PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE 5D. ALL SHOP DRAWINGS SHALL BE SUBMITTED IN 24x36, 11x17 AND 8-1/2x11 FORMAT ONLY. TZ OR EQUIV PUMPING. 65 STUDS ARE 3/4"Ø UNO A108 51 6. OSHA STANDARDS: OTHER SHAPES 6A. THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION. NOTHING SHOWN A53 GR B 35 ON THE STRUCTURAL DRAWINGS SHALL BE CONSTRUED AS ELIMINATING THE NEED FOR THE PLATES CONTRACTOR TO COMPLY WITH ALL OSHA REQUIREMENTS. A36 36 58 REINFORCING MATERIAL TABLE A500 GR B 46 58 ASTM Fy (KSI) Fu (KSI) COMMENTS REINF ELEMENT 6B. THE CONTRACTOR SHALL ADD ALL NECESSARY BOLTS, ANCHOR BOLTS, PLATES, STIFFENER ROUND HSS A500 GR B 42 58 YP REINFORCING A615 PLATES, STABILIZER PLATES, BRIDGING, BRACING, BEARING SEATS, COLUMN SPLICES, ETC., AS WELL SCREW ANCHORS HILTI HUS-H OR -- SUBMIT ICC EVALUATION REPORT WELDED & FIELD BENT REINF A706 AS CLOSURES FOR OPENINGS. IN ADDITION, FIELD WELD ANYTHING THAT MAY BE CONSIDERED A **EQUIV** TRIP HAZARD, SUCH AS SHEAR STUDS, AFTER PROTECTIVE DECKING IS INSTALLED. WELDED WIRE REINFORCING. SMOOTH A185 75 65 SLEEVE ANCHORS HILTI HLC OR -- SUBMIT ICC EVALUATION REPORT WELDED WIRE REINFORCING, DEFORMED A497 80 EQUIV 6C. WASHERS OR RINGS MAY BE WELDED TO COLUMNS TO PROVIDE FOR SAFETY CABLES. DO NOT WELDING ELECTRODES E70 PLACE HOLES IN COLUMNS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER. ADJUST -- PER AWS LOCATIONS OR ADD COLUMN SPLICES AS NECESSARY TO COMPLY WITH OSHA REQUIREMENTS. 50 65 --A992 CONCRETE COVER SUBMIT PROPOSED LOCATIONS. CASE COVER (IN) 6E. WHERE THE STRUCTURAL DRAWINGS APPEAR TO CONFLICT WITH OSHA REQUIREMENTS. THE CONCRETE PLACED IN FORMS, EXPOSED TO WEATHER OR EARTH METAL GAGE CONVERSION STRUCTURAL DRAWINGS REPRESENT FINAL CONDITIONS ONLY. THE CONTRACTOR SHALL ADD ALL SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER GAUGE MINIMUM THICKNESS (MILS) ERECTION FRAMING NECESSARY TO COMPLY WITH OSHA. Drawing Title **CONSULTANTS:** ARCHITECT/ENGINEERS: **GENERAL NOTES STRUCTURAL** MECHANICAL, PLUMBING, AND ELECTRICAL Heery International Inc.

PLAN NORTH

SCALE: 1/8" = 1'-0"

3 4 5

HIBERY

design

820 16th Street Mall.

Denver, CO 80202-3219

Approved: Project Director

Suite 200,

720.946.0276

Office of Construction and Facilities Management

Department of Veterans Affairs

Project Number

Building Number

Drawing Number

BLDG. NO. 1

Dwg. 2 of 7

VA-259-09-RA-209

Project Title

SURGERY RENOVATION

Checked

AND EXPANSION

CHEYENNE, WY

VA FORM 08-623

MARTIN / MARTIN, Inc.

P.O. Box 151500

(303) 431-6100

Lakewood, CO 80215

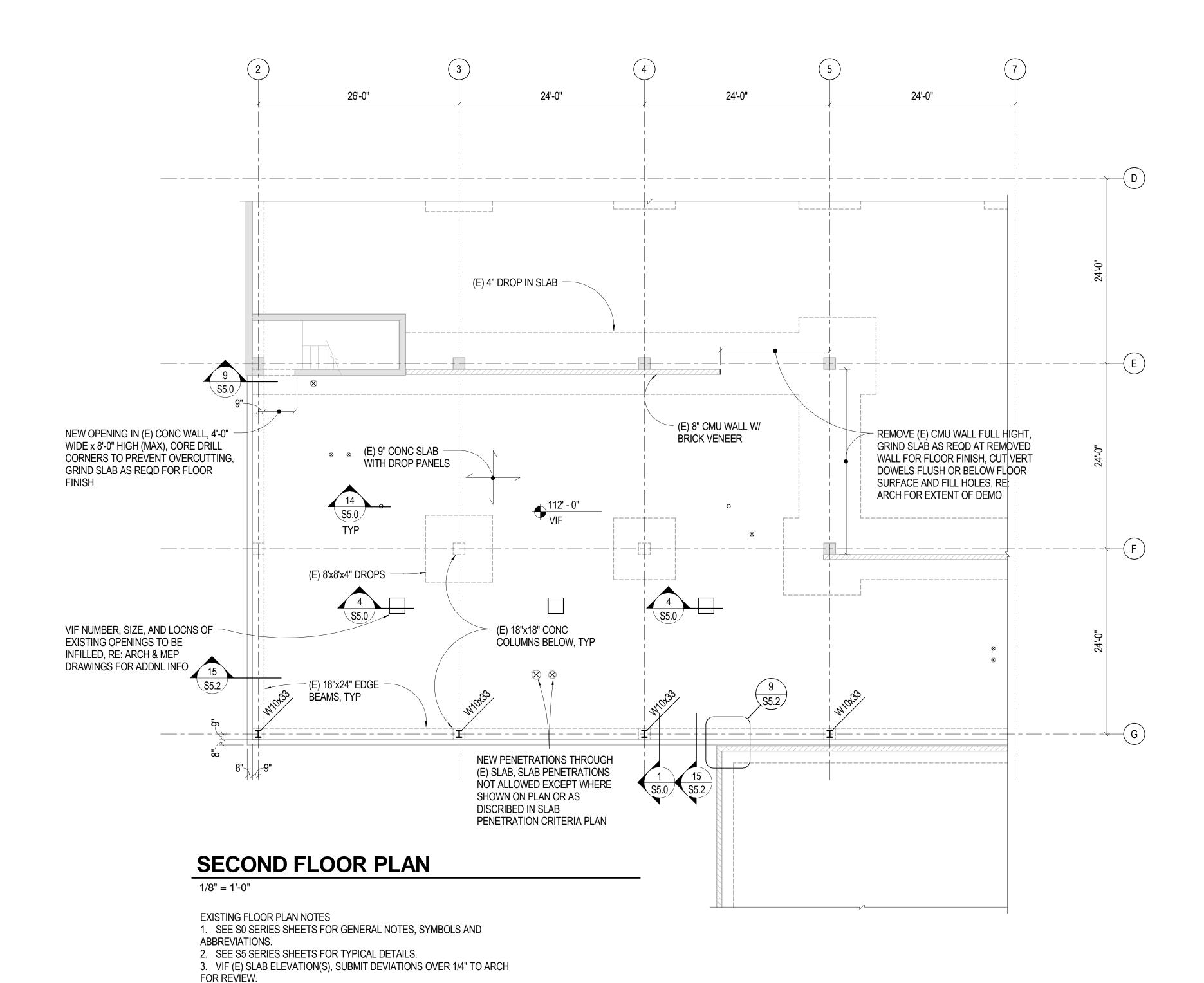
12499 West Colfax Avenue

Smith Seckman Reid, Inc. 4725 South Monaco Street

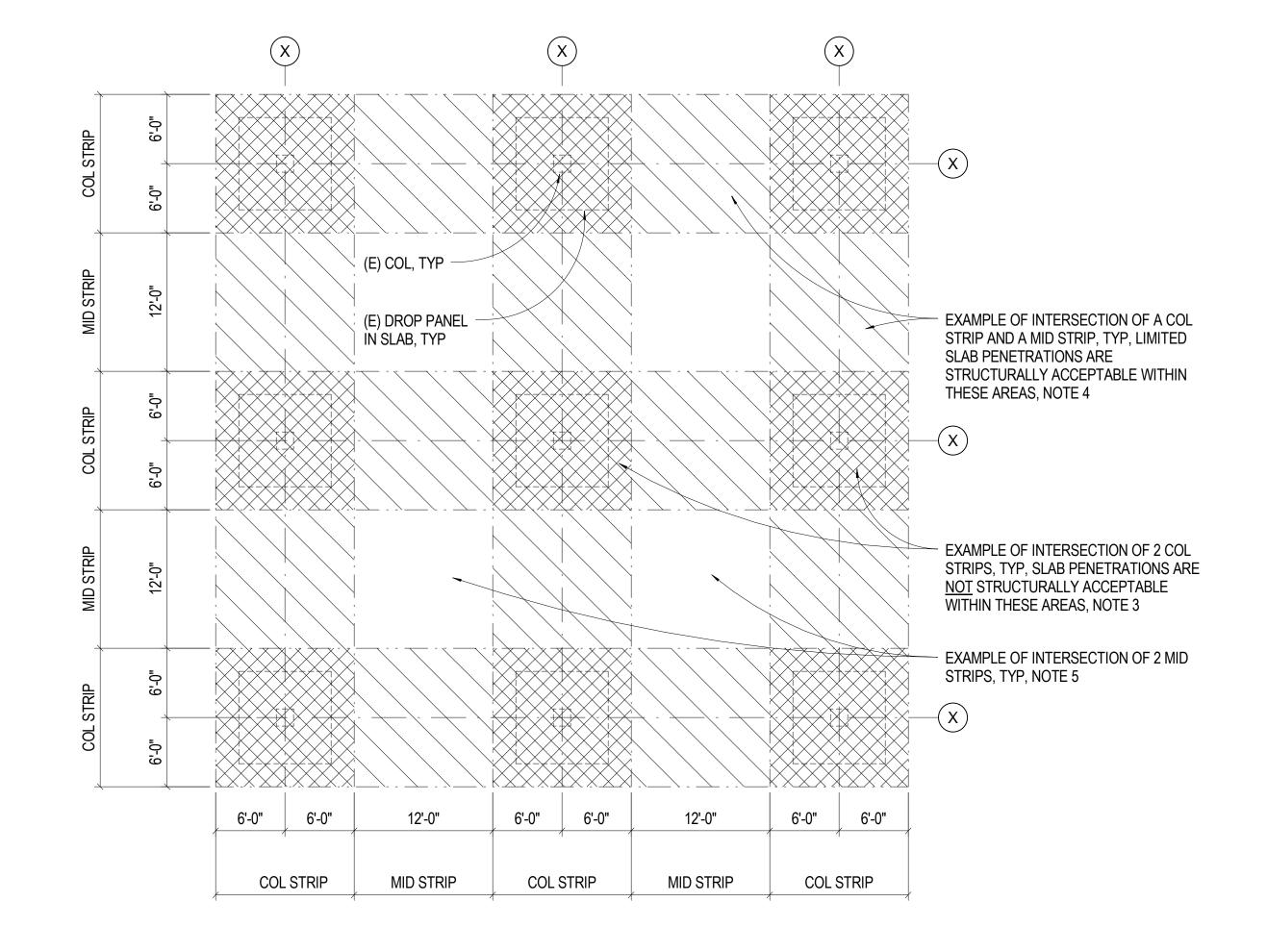
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SCALE: 1/8" = 1'-0"



SLAB PENETRATION CRITERIA

1/8" = 1'-0"

ALLOWABLE PENETRATION NOTES: 1. THE PLAN SHOWS A TYPICAL BAY OF THE (E) BUILDING AND DESIGNATES WHERE COL STRIPS AND MID STRIPS IN THE SLAB ARE LOCATED. THE STRIPS DICTATE THE RESTRICTIONS ON NEW OPENINGS IN THE (E)

2. (E) COLUMNS AND DROP PANELS IN THE SLAB ARE SHOWN FOR CLARITY. 3. NO PENETRATIONS ARE ALLOWED IN THE INTERSECTION OF 2 COL STRIPS NOTED THUS: 4. PENETRATIONS ARE ALLOWED IN THE INTERSECTION OF A COL STRIP AND A MID STRIP NOTED THUS: UP TO A TOTAL (3) 8"Ø PENETRATIONS ALLOWED SPACED AT 2'-0" (MIN) AROUND THE PERIMETER OF ANY ONE COLUMN. VIF LÒCATION OF (E) SLAB REINF, NEW PENETRATIONS SHALL NOT CUT (E) SLAB REINF. 5. ROUND PENETRATIONS ARE ALLOWED IN THE INTERSECTION OF 2 MID STRIPS UP TO (2) 16"Ø PENETRATIONS ALLOWED. VIF LOCATION OF (E) SLAB REINF, NEW PENETRATIONS SHALL BE LOCATED SUCH

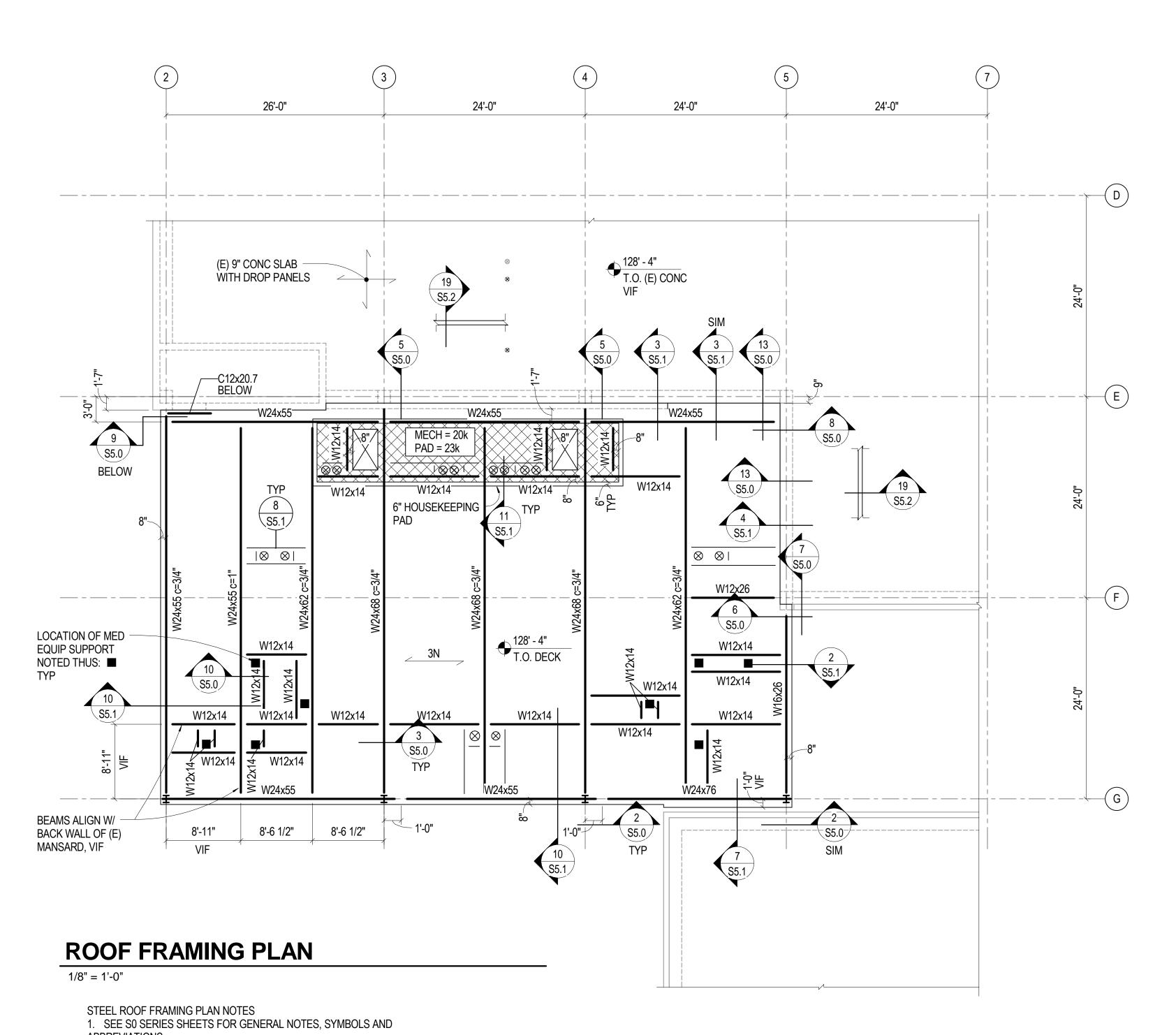
THAT ONLY ONE REINFORCING BAR CAN BE CUT IN EACH DIRECTION AT OPENINGS. 6. CONTRACTOR SHALL SUBMIT PROPOSED PENETRATIONS IN (E) SLAB TO ARCH/ENGINEER FOR APPROVAL. NO PENETRATIONS SHALL BE CUT WITH OUT THE PRIOR APPROVAL OF THE ARCH/ENGINEER. ALL PENETRATIONS FROM ALL TRADES TO BE SUBMITTED PRIOR TO FINAL APPROVAL.

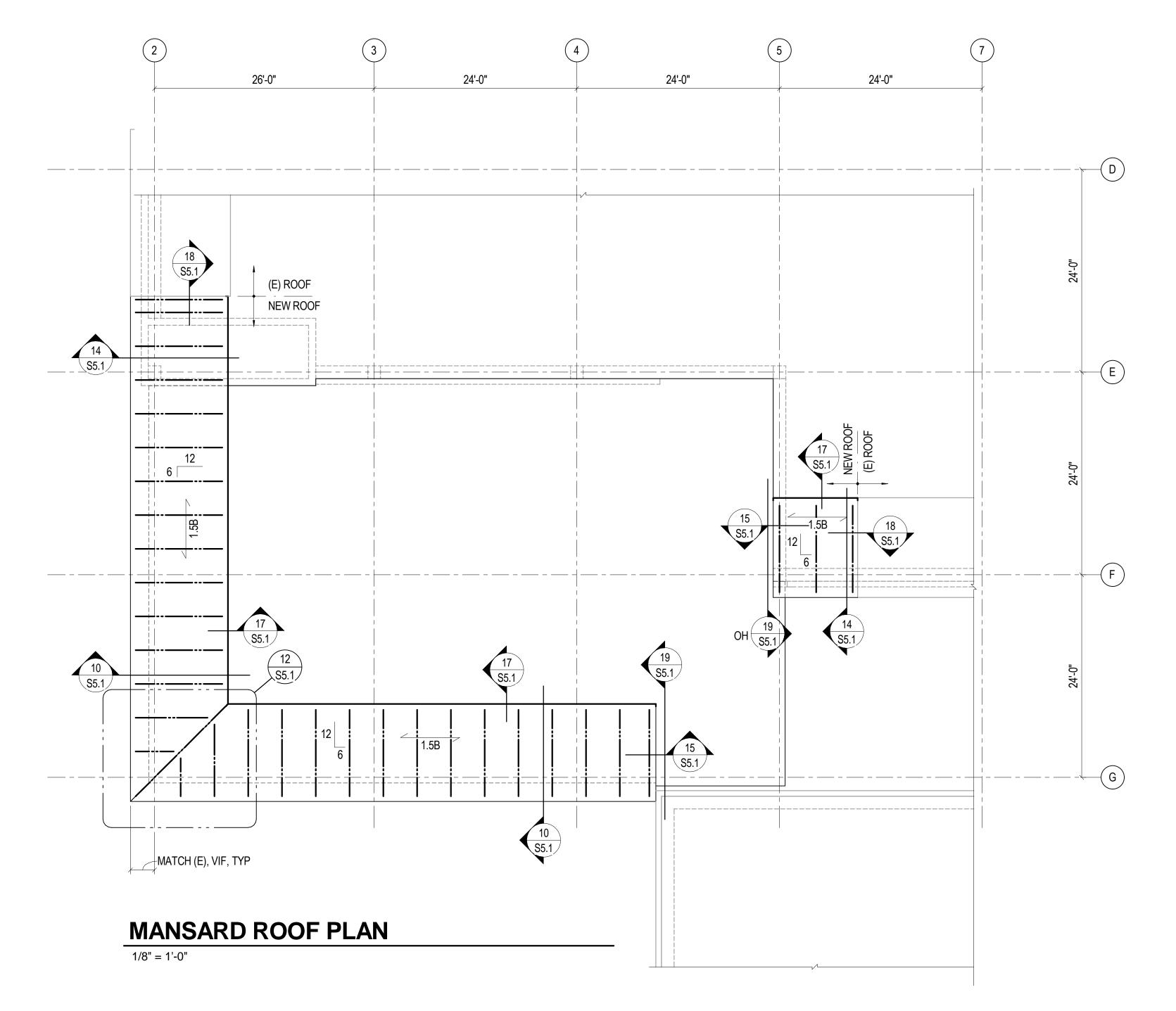
CONSULTANTS:		ARCHITECT/ENGINEERS:			Drawing Title SECOND FLOOR PLAN	Project Title SURGERY RENOVATION	Project Number VA-259-09-RA-209	Office of
STRUCTURAL MARTIN / MARTIN, Inc. 12499 West Colfax Avenue P.O. Box 151500 Lakewood, CO 80215 (303) 431-6100	MECHANICAL, PLUMBING, AND ELECTRICAL Smith Seckman Reid, Inc. 4725 South Monaco Street Suite 200 Denver, CO 80237 (303) 779-1222	PLAN NORTH CHARLES TO THE CONTROL OF		Heery International Inc. 820 16th Street Mall, Suite 200,		AND EXPANSION	Building Number BLDG. NO. 1	Construction and Facilities
			Denver, CO 80202-3219 720.946.0276	Approved: Project Director	Location CHEYENNE, WY		Management	
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one eighth inch = one foot

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ABBREVIATIONS.

2. CONTRACTOR TO VERIFY ALL EQUIPMENT WEIGHTS, SIZES, LOCATIONS, AND OPENINGS REQUIRED WITH MECHANICAL CONTRACTOR. CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF ANY CHANGES IN THE WEIGHTS OR LOCATIONS SHOWN ON THE DRAWINGS. SUCH CHANGES IN CONDITIONS SHALL BE SUBJECT TO STRUCTURAL ENGINEER REVIEW. RE: MECHANICAL AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL

OPENINGS NOT SHOWN.
3. MECHANICAL EQUIPMENT WEIGHTS NOTED ON PLAN.
4. ALL OPENINGS IN METAL DECK GREATER THAN 10 INCHES IN ANY DIRECTION SHALL BE SUPPORTED ON ALL FOUR SIDES BY A STEEL FRAME SPANNING BETWEEN DECK SUPPORTS. RE: 8/S5.1 FOR TYPICAL FRAMING AT ROOF DECK OPENINGS.

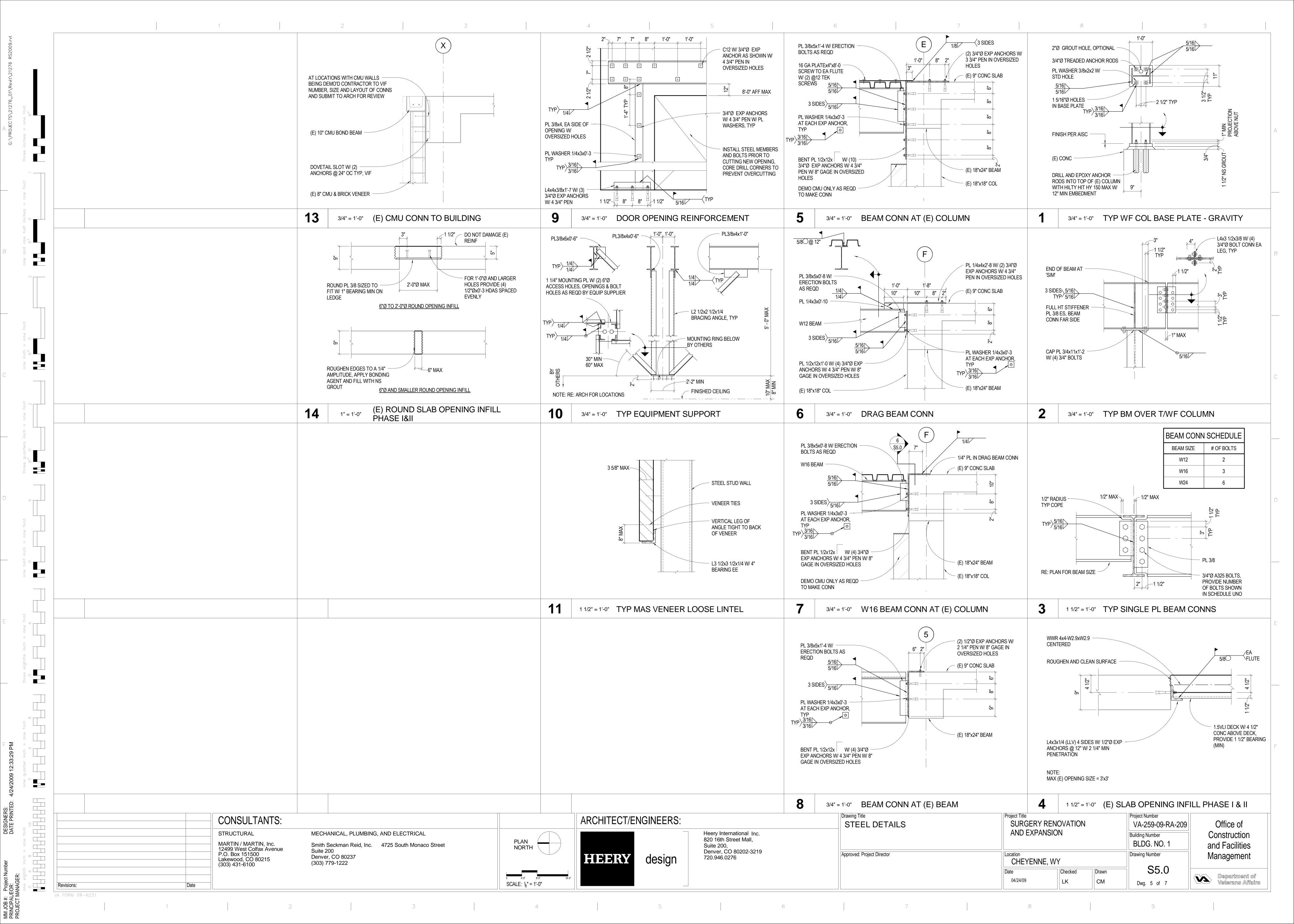
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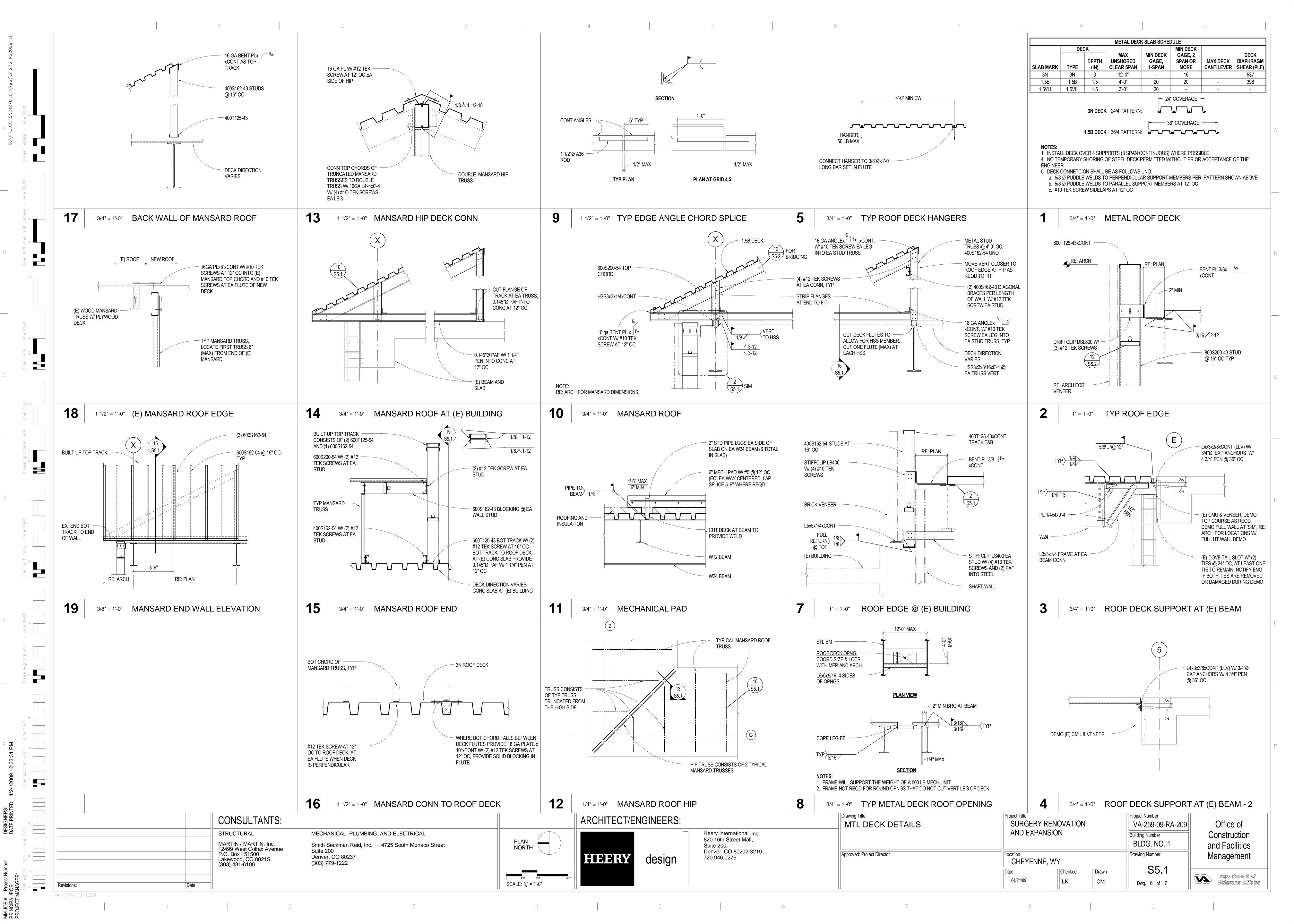
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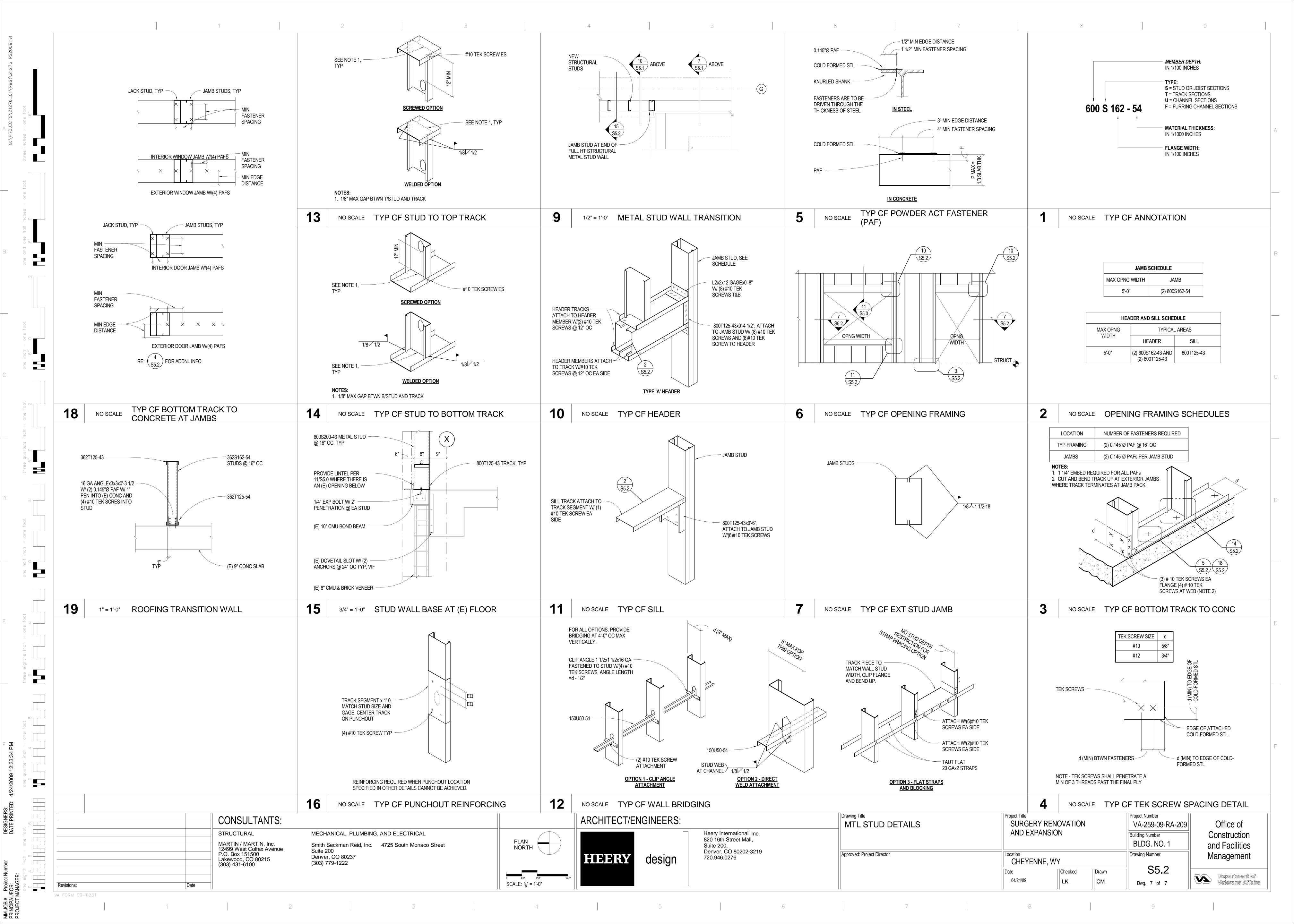
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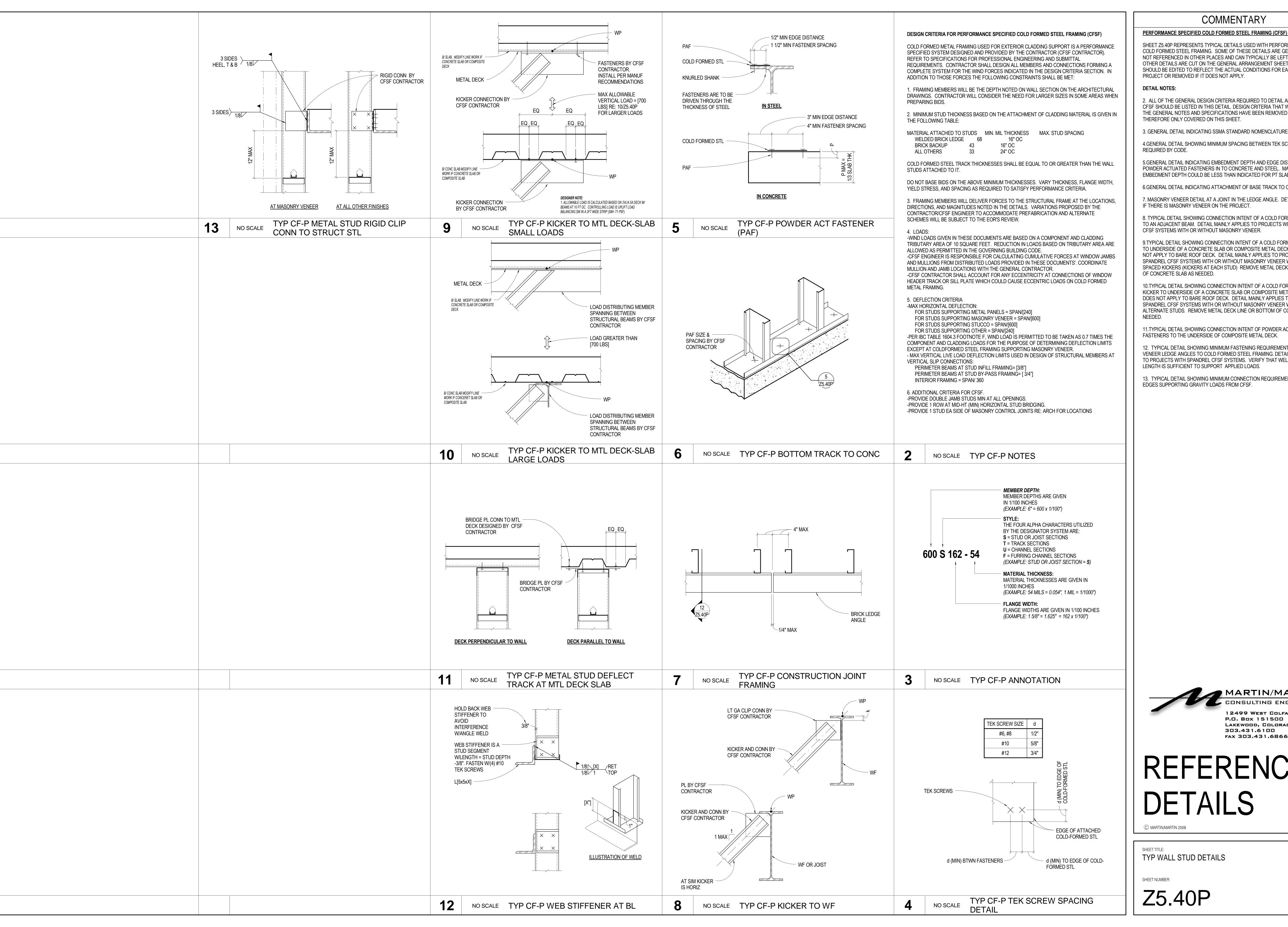
	CONSULTANTS:			ARCHITECT/ENGINEERS:		Prawing Title ROOF FRAMING PLAN	Project Title SURGERY RENOVATION	Project Number VA-259-09-RA-209	Office of
	STRUCTURAL MARTIN / MARTIN, Inc.	MECHANICAL, PLUMBING, AND ELECTRICAL Smith Seckman Reid, Inc. 4725 South Monaco Street	PLAN NORTH		Heery International Inc. 820 16th Street Mall, Suite 200,		AND EXPANSION	Building Number BLDG. NO. 1	Construction and Facilities
	12499 West Colfax Avenue P.O. Box 151500 Lakewood, CO 80215 (303) 431-6100	Suite 200 Denver, CO 80237 (303) 779-1222		design	Denver, CO 80202-3219 720.946.0276	Approved: Project Director	Location CHEYENNE, WY	Drawing Number	Management
Date			0 4'-0" 8'-0" 16'-0" SCALE: 1/8" = 1'-0"				Date Checked Drawn 04/24/09 LK CM	S1.2 Dwg. 4 of 7	Department of Veterans Affairs

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PERFORMANCE SPECIFIED COLD FORMED STEEL FRAMING (CFSF)

SHEET Z5.40P REPRESENTS TYPICAL DETAILS USED WITH PERFORI COLD FORMED STEEL FRAMING. SOME OF THESE DETAILS ARE GE NOT REFERENCED IN OTHER PLACES AND CAN TYPICALLY BE LEFT OTHER DETAILS ARE CUT ON THE GENERAL ARRANGEMENT SHEET SHOULD BE EDITED TO REFLECT THE ACTUAL CONDITIONS FOR EA PROJECT OR REMOVED IF IT DOES NOT APPLY.

DETAIL NOTES:

2. ALL OF THE GENERAL DESIGN CRITERIA REQUIRED TO DETAIL A CFSF SHOULD BE LISTED IN THIS DETAIL. DESIGN CRITERIA THAT W THE GENERAL NOTES AND SPECIFICATIONS HAVE BEEN REMOVED THEREFORE ONLY COVERED ON THIS SHEET.

3. GENERAL DETAIL INDICATING SSMA STANDARD NOMENCLATURE

4.GENERAL DETAIL SHOWING MINIMUM SPACING BETWEEN TEK SC REQUIRED BY CODE.

5.GENERAL DETAIL INDICATING EMBEDMENT DEPTH AND EDGE DIS

EMBEDMENT DEPTH COULD BE LESS THAN INDICATED FOR PT SLAF

6.GENERAL DETAIL INDICATING ATTACHMENT OF BASE TRACK TO C

7. MASONRY VENEER DETAIL AT A JOINT IN THE LEDGE ANGLE. DE

IF THERE IS MASONRY VENEER ON THE PROJECT.

8. TYPICAL DETAIL SHOWING CONNECTION INTENT OF A COLD FOR TO AN ADJACENT BEAM. DETAIL MAINLY APPLIES TO PROJECTS WI CFSF SYSTEMS WITH OR WITHOUT MASONRY VENEER.

9. TYPICAL DETAIL SHOWING CONNECTION INTENT OF A COLD FORM TO UNDERSIDE OF A CONCRETE SLAB OR COMPOSITE METAL DECK NOT APPLY TO BARE ROOF DECK. DETAIL MAINLY APPLIES TO PRO SPANDREL CFSF SYSTEMS WITH OR WITHOUT MASONRY VENEER V SPACED KICKERS (KICKERS AT EACH STUD) REMOVE METAL DECK OF CONCRETE SLAB AS NEEDED.

10. TYPICAL DETAIL SHOWING CONNECTION INTENT OF A COLD FOR KICKER TO UNDERSIDE OF A CONCRETE SLAB OR COMPOSITE MET DOES NOT APPLY TO BARE ROOF DECK. DETAIL MAINLY APPLIES T SPANDREL CFSF SYSTEMS WITH OR WITHOUT MASONRY VENEER V ALTERNATE STUDS. REMOVE METAL DECK LINE OR BOTTOM OF CO

11.TYPICAL DETAIL SHOWING CONNECTION INTENT OF POWDER AC FASTENERS TO THE UNDERSIDE OF COMPOSITE METAL DECK.

12. TYPICAL DETAIL SHOWING MINIMUM FASTENING REQUIREMENT VENEER LEDGE ANGLES TO COLD FORMED STEEL FRAMING. DETAI TO PROJECTS WITH SPANDREL CFSF SYSTEMS. VERIFY THAT WEL LENGTH IS SUFFICIENT TO SUPPORT APPLIED LOADS.

13. TYPICAL DETAIL SHOWING MINIMUM CONNECTION REQUIREMEN EDGES SUPPORTING GRAVITY LOADS FROM CFSF.



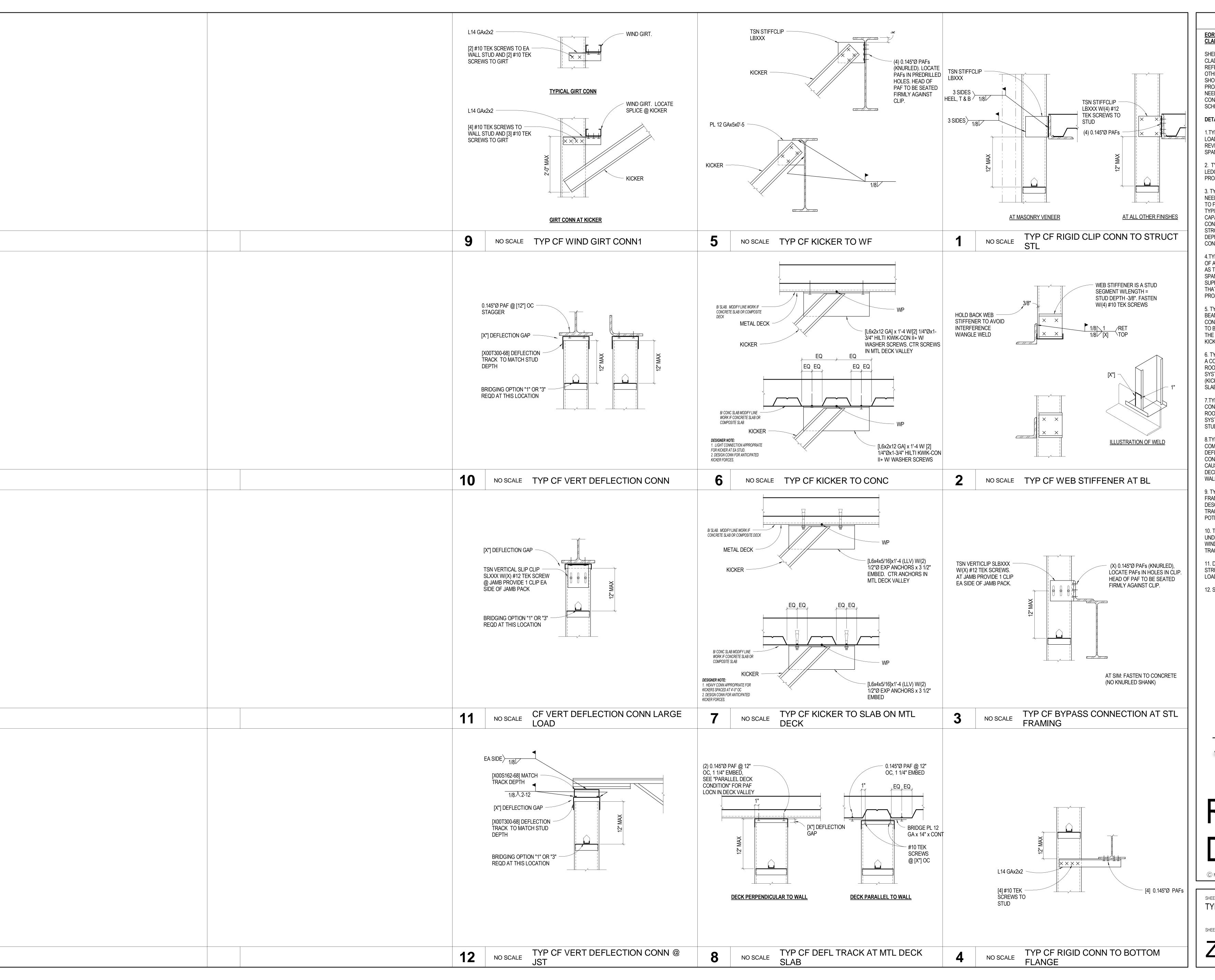
DETAILS

303.431.6100

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TYP WALL STUD DETAILS

Z5.40P



EOR COLD FORMED STEEL FRAMING (CFSF) COMMENTARY FOR CO CLADDING FRAMING:

SHEET Z5.41 REPRESENTS TYPICAL DETAILS USED WITH COMPONENT CLADDING CFSF. SOME OF THESE DETAILS ARE GENERAL DETAILS REFERENCED IN OTHER PLACES AND CAN TYPICALLY BE LEFT WITH OTHER DETAILS ARE CUT ON THE GENERAL ARRANGEMENT SHEETS SHOULD BE EDITED TO REFLECT THE ACTUAL CONDITIONS IN EACH PROJECT OR REMOVED IF THEY DO NOT APPLY. ANNOTATION IN BRANEDS TO BE REVIEWED AND DESIGN FOR THE SPECIFIC CONDITION CONDITIONS EXIST FOR THE SAME DETAIL THE INFORMATION CAN ESCHEDULED OR THE DETAIL COPIED TO REFLECT EACH CONDITION.

DETAIL NOTES:

1.TYPICAL DETAIL SHOWING CONNECTION REQUIREMENTS FOR GR. LOADED CLIPS WITH OR WITHOUT MASONRY VENEER. WELDED SIZ REVIEWED AND DESIGN IF NECESSARY. DETAIL MAINLY APPLIES TO SPANDREL CFSF SYSTEMS.

2. TYPICAL DETAIL SHOWING FASTENING REQUIREMENTS FOR MAS LEDGE ANGLES TO COLD FORMED STUD FRAMING. DETAIL MAINLY A PROJECTS WITH SPANDREL CFSF SYSTEMS.

3. TYPICAL DETAIL SHOWING SLIP CLIP CONNECTION TO SLAB/DECK NEED TO BE REVISED FOR THE SPECIFIC PROJECT TAKING INTO ACC TO FLOOR HEIGHT AND STUD SIZE AND GAGE. DESIGN THE CLIP FO TYPICAL CONDITION AND ADJUST STUD SPACING AS NEEDED TO ME CAPACITY. THIS DETAIL MAY NEED TO BE DUPLICATED TO COVER ALL CONDITIONS NOTE OFFICE STANDARD IS TO USE 'TSN' CLIPS WHICH STRONGER THAN DIETRICH CLIPS. THE CAPACITY OF THESE CLIPS ADDEPENDENT ON THE GAGE OF THE CF STUD. SUBSTITUTIONS PROPER CONTRACTOR IS ADDRESSED IN THE SPECIFICATIONS.

4.TYPICAL DETAIL SHOWING LATERAL CONNECTION OF STUD TO BO OF A BEAM. CONNECTION CAPACITY IS DEPENDENT ON THE STUD OF AS THE BEAM FLANGE THICKNESS. THIS CONNECTION IS USUALLY SPANDREL CONDITIONS WHERE THE GRAVITY LOAD FROM THE CLASUPPORTED FROM THE SLAB EDGE. PROVIDE CONNECTION AT EACH THAT IT IS ACCEPTABLE TO BRACE TO THE BOTTOM FLANGE OF THE PROJECTION BELOW WF BECOMES TOO LARGE, USE A KICKER.

5. TYPICAL DETAIL SHOWING CONNECTION OF A CF STUD KICKER T BEAM. DETAIL MAINLY APPLIES TO PROJECTS WITH SPANDREL FRA CONDITIONS WITH OR WITHOUT MASONRY VENEER. DESIGN CLIP AN TO BEAM FOR WORST CASE OR DUPLICATE DETAIL TO COVER OTHE THE CONNECTION FROM THE STUD TO THE CLIP SHOULD BE CALLED KICKER SIZE SINCE CONNECTION APPLIES EA END TYPICALLY.

6. TYPICAL DETAIL SHOWING CONNECTION OF A CF STUD KICKER TO A CONCRETE SLAB OR COMPOSITE METAL DECK. DETAIL DOES NOT ROOF DECK. DETAIL MAINLY APPLIES TO PROJECTS WITH SPANDRE SYSTEMS WITH OR WITHOUT MASONRY VENEER WITH CLOSELY SPACKICKERS AT EACH STUD) REMOVE METAL DECK LINE OR BOTTOM OF SLAB AS NEEDED.

7.TYPICAL DETAIL SHOWING CONNECTION CF STUD KICKER TO UNDIC CONCRETE SLAB OR COMPOSITE METAL DECK. DETAIL DOES NOT A ROOF DECK. DETAIL MAINLY APPLIES TO PROJECTS WITH SPANDRE SYSTEMS WITH OR WITHOUT MASONRY VENEER WITH KICKERS AT A STUDS. REMOVE METAL DECK LINE OR BOTTOM OF CONCRETE SLA

8.TYPICAL DETAIL SHOWING CONNECTION OF SLIP TRACK TO THE UCOMPOSITE METAL DECK USING POWDER ACTUATED FASTENERS. DEFLECTION GAP TO MIN L/360 DEFLECTION. DETAIL MAINLY APPLIF CONDITIONS WHEN THE FLOOR ABOVE EXTENDS OUT OVER THE FLOUSING AN EXTERIOR STUD TO BE CONNECTED TO THE UNDERSIDECK. THIS DETAIL IS NOT INTENDED FOR INTERIOR ARCHITECTUR WALLS.

9. TYPICAL DETAIL SHOWING CONNECTION OF HORIZONTAL WIND G FRAMING. DETAIL APPLIES TYPICALLY AT CONDITIONS SIMILAR TO DESCRIBED IN DETAIL 7 ABOVE. THIS USE USUALLY NEEDED WHER TRACK OF THE STUD FRAMING IS MORE THAN 2 FT FROM THE KICKE POTENTIAL DIFFERENTIAL DEFLECTION BETWEEN VERTICAL STUDS

10. TYPICAL DETAIL SHOWING CONNECTION OF VERTICAL SLIP TRACUNDERSIDE OF STRUCTURE. IF TALL FLOOR TO FLOOR HEIGHTS OF WIND LOADS EXISTS ON THE PROJECT USE DETAIL 11 THIS SHEET. TRACK FLANGE = 2xGAP +1"

11. DETAIL SHOWING CONNECTION OF VERTICAL SLIP CONN TO THE STRUCTURE. APPLIES AT TALL FLOOR TO FLOOR HEIGHTS OR VERY LOADS EXISTS ON THE PROJECT. SUGGESTED TRACK FLANGE = 2x0

12. SUGGESTED TRACK FLANGE = 2xGAP +1"



REFERENC DETAILS

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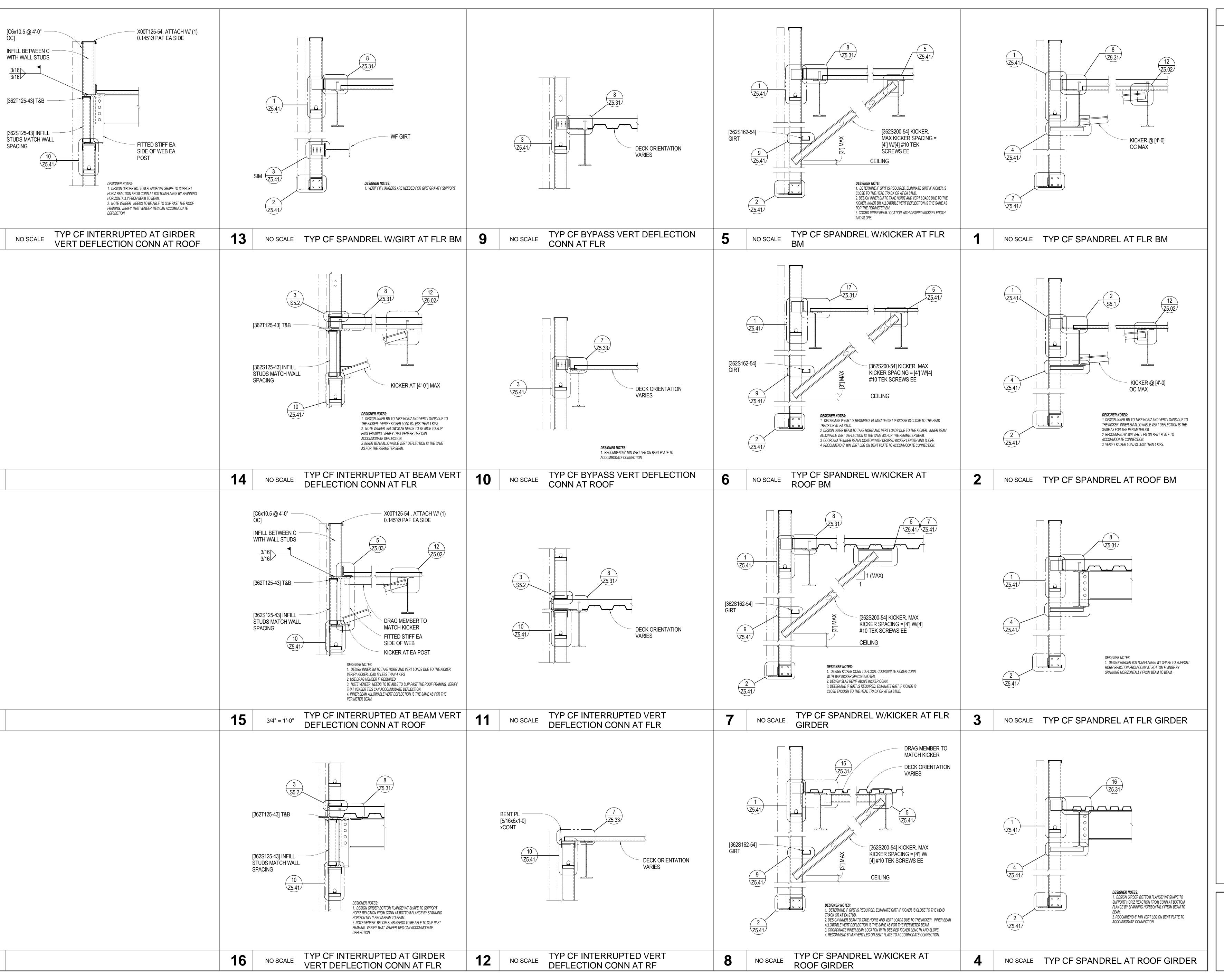
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SHEET TITLE:

TYP METAL STUD DETAILS

SHEET NUMBER:

Z5.41



EOR DESIGNED COLD FORMED STEEL FRAMING (CFSF) GENERAL DETAILS SUPPORTED BY STRUCTURAL STEEL:

SHEET Z5.42A REPRESENTS TYPICAL DETAILS USED WITH COLD FRAMING. THESE GENERAL ARRANGEMENT DETAILS ARE MEAN? POINT FOR THE MOST COMMON EDGE CONDITIONS WHEN USING STEEL STUD SYSTEM FOR THE EXTERIOR CLADDING. THESE DE GENERAL GOOD PRACTICE AND MUST BE MODIFIED TO REPRESE GEOMETRY OF THE SPECIFIC PROJECT. THE INTENT IS TO SHOW THE EDGE CONDITION AND HAVE ALL SPECIFIC CF-TO-CF CONNE SHEETS Z5.40 AND Z5.41. THE STRUCTURAL EDGE CONDITIONS S FROM SHEETS Z5.31. COMPLETED DETAILS ON THIS SHEET CAN DIRECTLY ON FLOOR PLANS OR ON PARTIAL OR FULL HEIGHT WA

DETAIL NOTES:

1. CF STUD SPANDREL PANEL AT BEAM SUPPORTING COMPOSITE OR WITHOUT VENEER. USE THIS DETAIL IF THE STUD EXTENDS L DEPTHS BELOW TOP OF SLAB. DESIGN INNER BM TO TAKE HORIZ DUE TO THE KICKER. INNER BM ALLOWABLE VERT DEFLECTION IS THE PERIMETER BM. VERIFY KICKER LOAD IS LESS THAN 4 KIPS. 2. CF STUD SPANDREL PANEL AT BEAM SUPPORTING ROOF DEC VENEER. USE THIS DETAIL IF THE STUD EXTENDS LESS THAN [3] BELOW TOP OF BEAM.

3. CF STUD SPANDREL PANEL AT GIRDER SUPPORTING COMPOS WITH OR WITHOUT VENEER. USE THIS DETAIL IF THE STUD EXTE BEAM DEPTHS BELOW TOP OF SLAB. 4. CF STUD SPANDREL PANEL AT GIRDER SUPPORTING ROOF DE WITHOUT VENEER. USE THIS DETAIL IF THE STUD EXTENDS LESS DEPTHS BELOW TOP OF GIRDER.

5. CF STUD SPANDREL PANEL AT BEAM SUPPORTING COMPOSITE OR WITHOUT VENEER. USE THIS DETAIL IF THE STUD EXTENDS M DEPTHS BELOW TOP OF SLAB. 6. CF STUD SPANDREL PANEL AT BEAM OR GIRDER SUPPORTING OR WITHOUT VENEER. USE THIS DETAIL IF THE STUD EXTENDS M

DEPTHS BELOW TOP OF BEAM. 7. CF STUD SPANDREL PANEL AT GIRDER SUPPORTING COMPOSI OR WITHOUT VENEER. USE THIS DETAIL IF THE STUD EXTENDS M DEPTHS BELOW TOP OF SLAB.

8. CF STUD SPANDREL PANEL AT GIRDER SUPPORTING ROOF DE WITHOUT VENEER. USE THIS DETAIL IF THE STUD EXTENDS MOR DEPTHS BELOW TOP OF SLAB.

9. CF WALL FRAMING BY-PASSING BEAM/GIRDER SUPPORTING CO FLOOR FRAMING SUPPORTS LATERAL LOADS ONLY. GRAVITY LO SUPPORTED EITHER AT FLOOR BELOW OR BY A GRADE BEAM. 10. CF WALL FRAMING BY-PASSING BEAM/GIRDER SUPPORTING F FRAMING SUPPORTS LATERAL LOADS ONLY. GRAVITY LOADS AF EITHER AT FLOOR BELOW OR BY A GRADE BEAM.

11. CF WALL INFILL FRAMING AT BEAM/GIRDER SUPPORTING CO THIS DETAIL REQUIRES A SLIP CONNECTION AT THE BOTTOM OF RELIEF ANGLE TO SUPPORT ANY VENEER AT THE SLAB EDGE. C HORIZONTAL CONTROL JOINT WITH ARCH. IF THE CONTROL JOIN THE SLAB EDGE THIS CONDITION WILL REQUIRE A SPECIALTY DE

12. CF WALL INFILL FRAMING AT BEAM/GIRDER SUPPORTING RO W/OUT VENEER. THIS DETAIL REQUIRES A SLIP CONNECTION AT SLAB. DETAIL 10 IS PREFERRED TO THIS ONE IF POSSIBLE 13. CF STUD SPANDREL PANEL AT BEAM SUPPORTING COMPOSIT OR WITHOUT VENEER. USE THIS DETAIL IF A KICKER IS NOT POS HEIGHT OR LOADING.

14. CF STUD INTERRUPTED BY FLOOR PERIMETER BEAM SUPPO DECK WITH OR WITHOUT VENEER. USE THIS DETAIL WHERE WAL ALIGNED WITH THE STRUCTURAL FRAMING. 15. CF STUD INTERRUPTED BY ROOF PERIMETER BEAM SUPPOR

WITH OR WITHOUT VENEER. USE THIS DETAIL WHERE WALL STUI THE STRUCTURAL FRAMING. 16. CF STUD INTERRUPTED BY FLOOR GIRDER SUPPORTING COM

OR WITHOUT VENEER. USE THIS DETAIL WHERE WALL STUDS AR STRUCTURAL FRAMING. 17. CF STUD INTERRUPTED BY ROOF GIRDER SUPPORTING ROO

WITHOUT VENEER. USE THIS DETAIL WHERE WALL STUDS ARE A STRUCTURAL FRAMING.



DETAILS

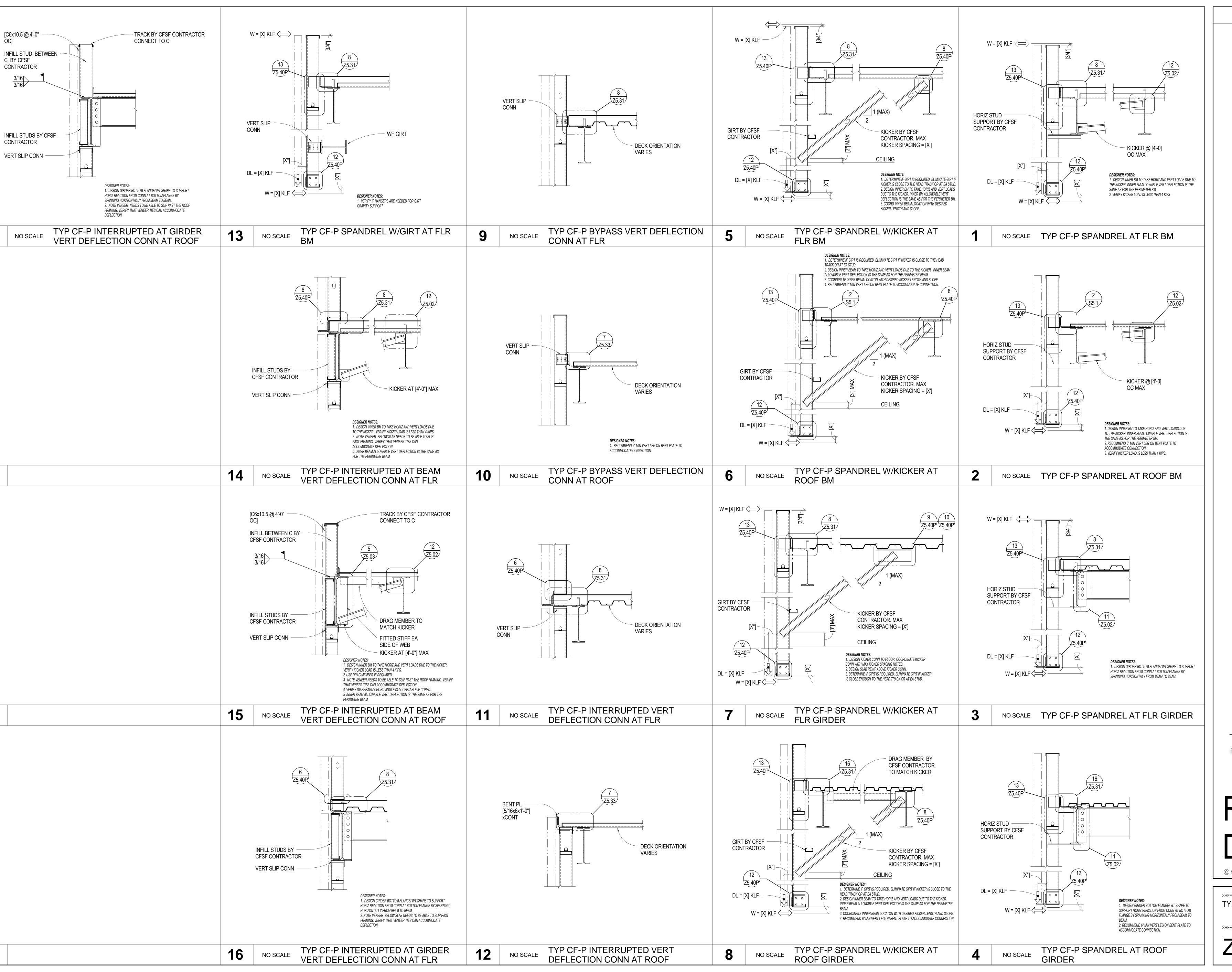
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SHEET TITLE: TYP ASSEMBLIES

SHEET NUMBER:

Z5.42A



PERFORMANCE SPECIFIED CO STEEL FRAMING (CFSF) GENE ARRANGEMENT DETAILS SUP STRUCTURAL STEEL:

SHEET Z5.42AP REPRESENTS

USED WITH PERFORMANCE SE STEEL FRAMING. THESE GENE ARRANGEMENT DETAILS ARE

STARTING POINT FOR THE MO CONDITIONS WHEN USING A C STEEL STUD SYSTEM FOR THE CLADDING. THESE DETAILS RE GENERAL GOOD PRACTICE AN MODIFIED TO REPRESENT THE GEOMETRY OF THE SPECIFIC INTENT IS TO SHOW LOADING VENEERS OR OTHER COMPON COLD FORMED FRAMING BUT ON CF -TO-CF CONNECTIONS WHAT IS SHOWN ON Z5.40P. D THE STRUCTURAL EDGE COND BE CUT FROM SHEETS Z5.31. DETAILS ON THIS SHEET CAN I DIRECTLY ON FLOOR PLANS O FULL HEIGHT WALL SECTIONS

DETAIL NOTES:

1. CF STUD SPANDREL PANEL A SUPPORTING COMPOSITE FLO WITHOUT VENEER. USE THIS DETAIL STUD EXTENDS LESS THAN [3] BELOW TOP OF SLAB.

2. CF STUD SPANDREL PANEL SUPPORTING ROOF DECK WITH VENEER. USE THIS DETAIL IF EXTENDS LESS THAN [3] BEAM TOP OF BEAM.

3. CF STUD SPANDREL PANEL SUPPORTING COMPOSITE FLC WITHOUT VENEER. USE THIS DETAIL IF SUPPORTING COMPOSITE FLC WITHOUT VENEER. USE THIS DETAIL IS DETAIL I

WITHOUT VENEER. USE THIS D
EXTENDS LESS THAN [3] BEAM
TOP OF SLAB.

4. CF STUD SPANDREL PANEL
SUPPORTING ROOF DECK WITH
VENEER. USE THIS DETAIL IF T
EXTENDS LESS THAN [3] BEAM
TOP OF GIRDER.

VENEER. USE THIS DETAIL IF TEXTENDS LESS THAN [3] BEAM TOP OF GIRDER.

5. CF STUD SPANDREL PANEL SUPPORTING COMPOSITE FLOWITHOUT VENEER. USE THIS DEXTENDS MORE THAN [3] BEAT TOP OF SLAB.

6. CF STUD SPANDREL PANEL

GIRDER SUPPORTING ROOF DI WITHOUT VENEER. USE THIS D EXTENDS MORE THAN [3] BEAN TOP OF BEAM. 7. CF STUD SPANDREL PANEL A SUPPORTING COMPOSITE FLO WITHOUT VENEER. USE THIS D

7. CF STUD SPANDREL PANEL A SUPPORTING COMPOSITE FLO WITHOUT VENEER. USE THIS D EXTENDS MORE THAN [3] BEAN TOP OF SLAB. 8. CF STUD SPANDREL PANEL A

SUPPORTING ROOF DECK WIT VENEER. USE THIS DETAIL IF A EXTENDS MORE THAN [3] BEAI TOP OF SLAB. 9. CF WALL FRAMING BY-PASS SUPPORTING COMPOSITE SLA FRAMING SUPPORTS LATERAL **GRAVITY LOADS ARE SUPPOR** FLOOR BELOW OR ON GRADE. 10. CF WALL FRAMING BY-PAS BEAM/GIRDER SUPPORTING R FRAMING SUPPORTS LATERAL GRAVITY LOADS ARE SUPPOR FLOOR BELOW OR ON GRADE. 11. CF WALL INFILL FRAMING SUPPORTING COMPOSITE SLA

THIS DETAIL REQUIRES A SLIP THE BOTTOM OF THE SLAB AN TO SUPPORT ANY VENEER AT COORDINATE HORIZONTAL CC WITH ARCH. IF THE CONTROL CLOSE TO THE SLAB EDGE TH REQUIRE A SPECIALTY DETAIL 12. CF WALL INFILL FRAMING SUPPORTING ROOF DECK. THIS DETAIL REQUIRES A SLIP THE BOTTOM OF THE DECK. D PREFERRED IF POSSIBLE 13. CF STUD SPANDREL PANE SUPPORTING COMPOSITE FLC WITHOUT VENEER. USE THIS I IS NOT POSSIBLE DUE TO CEIL

LOADING.

14. CF STUD INTERRUPTED BY PERIMETER BEAM SUPPORTING DECK WITH OR WITHOUT VENE DETAIL WHERE WALL STUDS ATTHE STRUCTURAL FRAMING.

15. CF STUD INTERRUPTED BY PERIMETER BEAM SUPPORTING WITH OR WITHOUT VENEER. US WHERE WELL STUDS AREA LA

SUPPORT WICKEN MITTONS THE PERSON WALKSTWOOD ARE ALLONG WE STRUCT WAALING WITH THE STRUCT THE STRUC

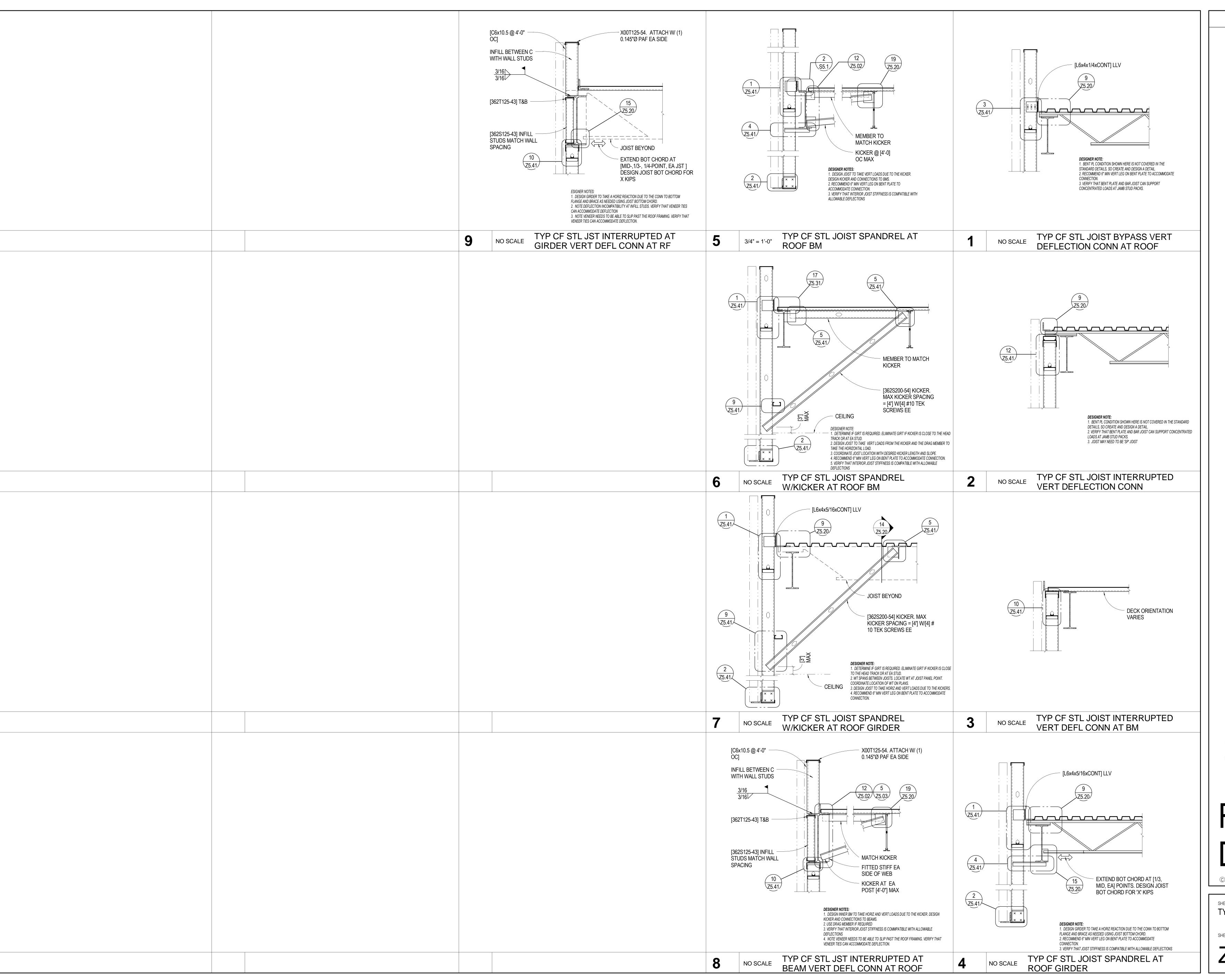
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SHEET TITLE:
TYP PERF SPEC ASSEMBLIES

SHEET NUMBER:

Z5.42AP



EOR DESIGNED COLD FORMEI (CFSF) GENERAL ARRANGEME SUPPORTED BY BAR JOIST FR

SHEET Z5.42B REPRESENTS T

USED WITH COLD FORMED ST THESE GENERAL ARRANGEME MEANT TO BE A STARTING PO COMMON EDGE CONDITIONS \ COLD FORMED STEEL STUD S' EXTERIOR CLADDING. THESE REPRESENT GENERAL GOOD MUST BE MODIFIED TO REPRE GEOMETRY OF THE SPECIFIC INTENT IS TO SHOW THE GEO! EDGE CONDITION AND HAVE A TO-CF CONNECTIONS DETAILE Z5.40 AND Z5.41. THE STRUCTU CONDITIONS SHOULD BE CUT Z5.20 AND Z5.31. COMPLETED SHEET CAN EITHER BE CUT DI PLANS OR ON PARTIAL OR FUL SECTIONS.

DETAIL NOTES:

1. CF STUD BY-PASS AT BAR JO ROOF DECK WITH OR WITHOU THIS DETAIL AT PARAPET CON YOU CAN RUN THE STUDS PAS ON THE OUTSIDE AND YOUR T IN THE WALL ARE PUNCHED. 2. CF STUD INTERRUPTED BY FRAMING AT BAR JOIST SUPPO DECK WITH OR WITHOUT VENE DETAIL WHERE NO PARAPET IS 3. CF STUD INTERRUPTED BY FRAMING PARALLEL TO BAR JO ROOF DECK WITH OR WITHOU THIS DETAIL WHERE NO PARA 4. CF STUD SPANDREL PANEL SUPPORTING ROOF DECK WIT VENEER. USE THIS DETAIL IF T LESS THAN [3] BEAM DEPTHS F 5. CF STUD SPANDREL PANEL

GIRDER.

5. CF STUD SPANDREL PANEL PARALLEL TO BAR JOIST SUPPER DECK WITH OR WITHOUT VENED DETAIL IF THE STUD EXTENDS BEAM DEPTHS BELOW TOP OF 6. CF STUD SPANDREL PANEL SUPPORTING ROOF DECK PARAJOIST WITH OR WITHOUT VENIDETAIL IF THE STUD EXTENDS BEAM DEPTHS BELOW TOP OF 7. CF STUD SPANDREL PANEL SUPPORTING ROOF DECK WITHOUT VENIDERS. USE THIS DETAIL IF THE STUD EXTENDS SUPPORTING ROOF DECK WITHOUT VENIDER. USE THIS DETAIL IF THE STUD STAIL IF THE STUD SEAM DEPTHS SI AR

8. CF STUD INTERRUPTED BY BEAM PARALLEL TO BAR JOIST ROOF DECK WITH OR WITHOUTHIS DETAIL WHERE WALL STUWITH THE STRUCTURAL FRAMI 9. CF STUD INTERRUPTED BY SUPPORTING BAR JOIST SUPPOECK WITH OR WITHOUT VENE DETAIL WHERE WALL STUDS A THE STRUCTURAL FRAMING.



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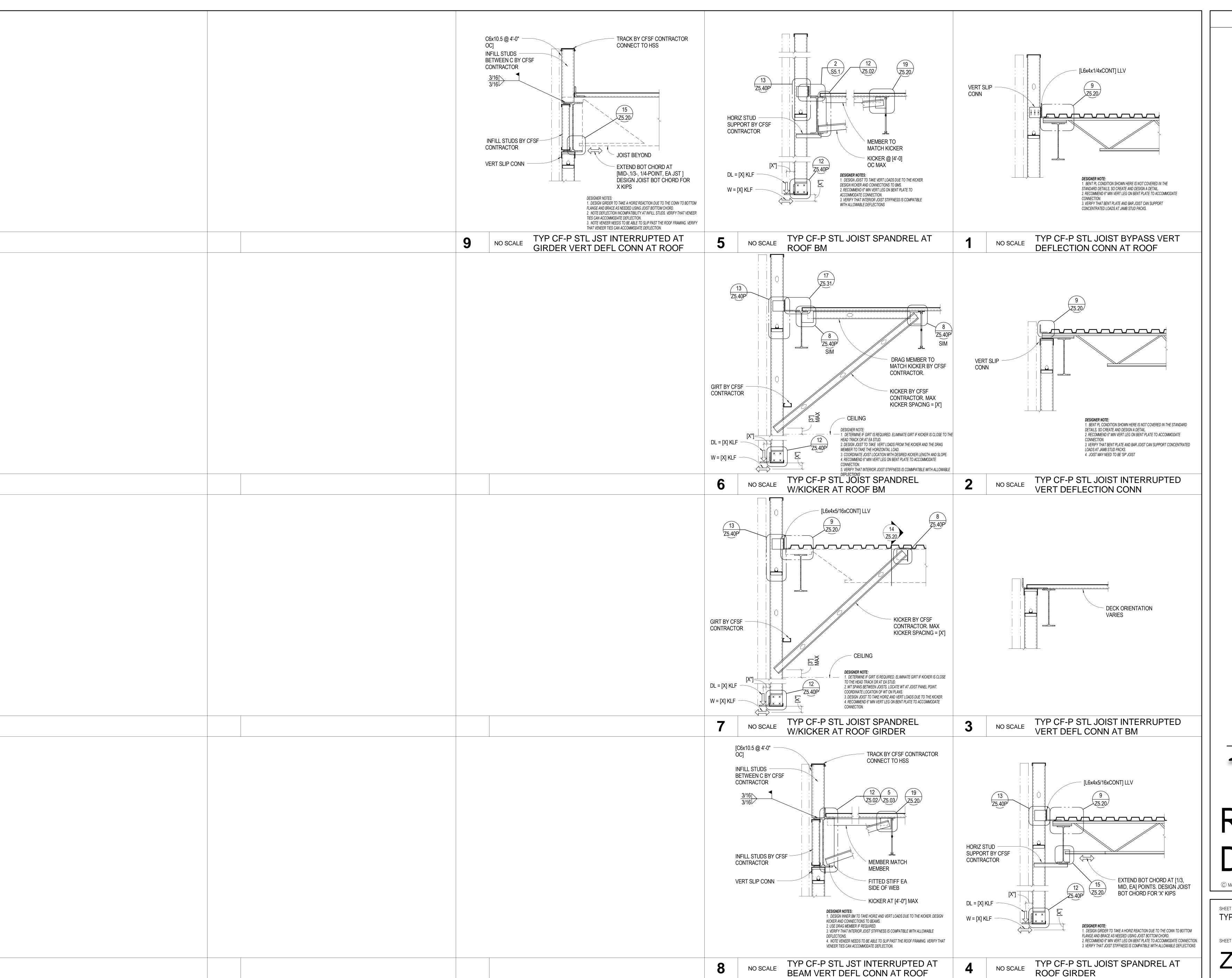
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SHEET TITLE:

TYP ASSEMBLIES

SHEET NUMBER:

Z5.42B



PERFORMANCE SPECIFIED CO FRAMING (CFSF) GENERAL AR DETAILS SUPPORTED BY BAR

SHEET Z5.42BP REPRESENTS USED WITH COLD FORMED ST THESE GENERAL ARRANGEME MEANT TO BE A STARTING PO COMMON EDGE CONDITIONS \ COLD FORMED STEEL STUD S' EXTERIOR CLADDING. THESE REPRESENT GENERAL GOOD MUST BE MODIFIED TO REPRE GEOMETRY OF THE SPECIFIC INTENT IS TO SHOW THE GEO! EDGE CONDITION AND HAVE A CF CONNECTIONS DETAILED C THE STRUCTURAL EDGE COND **CUT FROM SHEETS Z5.20 AND** DETAILS ON THIS SHEET CAN DIRECTLY ON FLOOR PLANS O FULL HEIGHT WALL SECTIONS

DETAIL NOTES:

1. CF STUD BY-PASS AT BAR JO ROOF DECK WITH OR WITHOUTHIS DETAIL AT PARAPET CON CAN RUN THE STUDS PAST TH OUTSIDE AND YOUR TYPICAL (WALL ARE PUNCHED.

2. CF STUD INTERRUPTED BY FRAMING AT BAR JOIST SUPPOWITH OR WITHOUT VENEER. UWHERE NO PARAPET IS REQUICOULD ALSO BE USED AT LOC JOIST EXTENSIONS EXTENDIN WHICH CASE THE TRACK EITH

JOIST EXTENSIONS EXTENDIN
WHICH CASE THE TRACK EITH
ABLE TO SPAN FROM JOIST TO
A HEADER MEMBER.
3. CF STUD INTERRUPTED BY
FRAMING PARALLEL TO BAR JO
ROOF DECK WITH OR WITHOUTHIS DETAIL WHERE NO PARAL
4. CF STUD SPANDREL PANEL
SUPPORTING ROOF DECK WITH
VENEER. USE THIS DETAIL IF THE LESS THAN [3] BEAM DEPTHS FOR THE STANDER.

LESS THAN [3] BEAM DEPTHS EGIRDER.
5. CF STUD SPANDREL PANEL SUPPORTING ROOF DECK PAR JOIST WITH OR WITHOUT VENEDETAIL IF THE STUD EXTENDS BEAM DEPTHS BELOW TOP OF 6. CF STUD SPANDREL PANEL ASUPPORTING ROOF DECK WITH VENEER. USE THIS DETAIL IF THE MORE THAN [3] BEAM DEPTHS SLAB.

SLAB.
7. CF STUD SPANDREL PANEL A
SUPPORTING ROOF DECK WITH
VENEER. USE THIS DETAIL IF T
MORE THAN [3] BEAM DEPTHS
SLAB

8. CF STUD INTERRUPTED BY BEAM PARALLEL TO BAR JOIST ROOF DECK WITH OR WITHOUT THIS DETAIL WHERE WALL STUWITH THE STRUCTURAL FRAM 9. CF STUD INTERRUPTED BY SUPPORTING BAR JOIST SUPPOECK WITH OR WITHOUT VENED DETAIL WHERE WALL STUDS AT THE STRUCTURAL FRAMING.



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SHEET TITLE:

TYP PERF SPEC ASSEMBLIES

SHEET NUMBER:

Z5.42BP

ICBN10.5 @ 4-0" OCJ INFILL BETWEEN HSS WITH WALL STUDS 10 SIM 25.41 SIM 25
TYP CF CONC INTERRUPTED VERT NO SCALE TYP CF CONC BYPASS VERT DEFLECTION CONN AT RF SLAB
TYP CF CONC INTERRUPTED VERT DEFLECTION CONN AT REBAM NO SCALE TYP CF CONC INTERRUPTED VERT DEFLECTION CONN AT REBAM NO SCALE TYP CF CONC BYPASS VERT DEFLECTION CONN AT REBAM
SIM 25.41 SIM 25.41 CTR EMBED VERT IN SLAB SS2 SS2 SS2 SSS2 DESIGNER NOTES 1. NETD CORRESPONDE FOR THE MERIESTON OF CONCRETE IN ORSHALL DEPLECTION CALCULATION TOTAL 1-17 DESIGNER IN ORSHALL DEPLECTION C
7 NO SCALE TYP CF CONC SPANDREL 3 NO SCALE TYP CF CONC INTERRUPTED VERT DEFLECTION CONN AT SLAB SIM 1/25.41 SIM 1/25.41

EOR DESIGNED COLD FORME FRAMING (CFSF) GENERAL ARRANGEMENT DETAILS SUPERIOR SUPERIOR

SHEET Z5.42C REPRESENTS T DETAILS USED WITH COLD FOI STEEL FRAMING. THESE GENI ARRANGEMENT DETAILS ARE BE A STARTING POINT FOR TH COMMON EDGE CONDITIONS \ USING A COLD FORMED STEEL SYSTEM FOR THE EXTERIOR O THESE DETAILS REPRESENT O GOOD PRACTICE AND MUST B MODIFIED TO REPRESENT THE GEOMETRY OF THE SPECIFIC THE INTENT IS TO SHOW THE GEOMETRY OF THE EDGE CON AND HAVE ALL SPECIFIC CF-TC CONNECTIONS DETAILED ON S Z5.4X. THE STRUCTURAL EDGE CONDITIONS SHOULD BE CUT SHEETS Z3.0X. COMPLETED D THIS SHEET CAN EITHER BE C DIRECTLY ON FLOOR PLANS O PARTIAL OR FULL HEIGHT WAL SECTIONS.

DETAIL NOTES:

1. CF STUD BY-PASS AT CIP SI EDGE WITH OR WITHOUT VEN THIS DETAIL AT FLOOR AND PA CONDITION WHERE YOU CAN I STUDS PAST THE FRAMING ON OUTSIDE AND YOUR TYPICAL (IN THE WALL ARE PUNCHED. 2. CF STUD BY-PASS AT CIP E BEAM WITH OR WITHOUT VEN THIS DETAIL AT FLOOR AND PA CONDITION WHERE YOU CAN I STUDS PAST THE FRAMING ON OUTSIDE AND YOUR TYPICAL (IN THE WALL ARE PUNCHED. 3. CF STUD INTERRUPTED BY FLOOR SLAB WITH OR WITHOUVENEER. USE THIS DETAIL WH STUD FRAMING IS USED AS INI BETWEEN FLOORS AND YOUR OPENINGS ARE PUNCHED. EX FINISHES SHOULD PREFERAB JOINTED AT THE FLOOR LINE. 4. CF STUD INTERRUPTED BY FLOOR BEAM WITH OR WITHO VENEER. USE THIS DETAIL WH STUD FRAMING IS USED AS INI BETWEEN FLOORS AND YOUR OPENINGS ARE PUNCHED. EXT FINISHES SHOULD PREFERAB JOINTED AT THE FLOOR LINE. 5. CF STUD INTERRUPTED BY ROOF SLAB WITH OR WITHOU USE THIS DETAIL WHERE STUI FRAMING IS USED AS INFILL BI FLOORS AND YOUR TYPICAL C ARE PUNCHED. 6. CF STUD INTERRUPTED BY ROOF BEAM WITH OR WITHOU

CONCRETE.
8. CF STUD SPANDREL PANEL SLAB EDGE PERIMETER BEAM WITHOUT VENEER. USE THIS DITHE STUD EXTENDS MORE THAT BEAM DEPTHS BELOW TOP OF CONCRETE.

VENEER. USE THIS DETAIL WH STUD FRAMING IS USED AS INI BETWEEN FLOORS AND YOUR OPENINGS ARE PUNCHED. 7. CF STUD SPANDREL PANEL SLAB EDGE PERIMETER BEAM WITHOUT VENEER. USE THIS DETAILS THE STUD EXTENDS LESS THAT BEAM/ SLAB DEPTHS BELOW T



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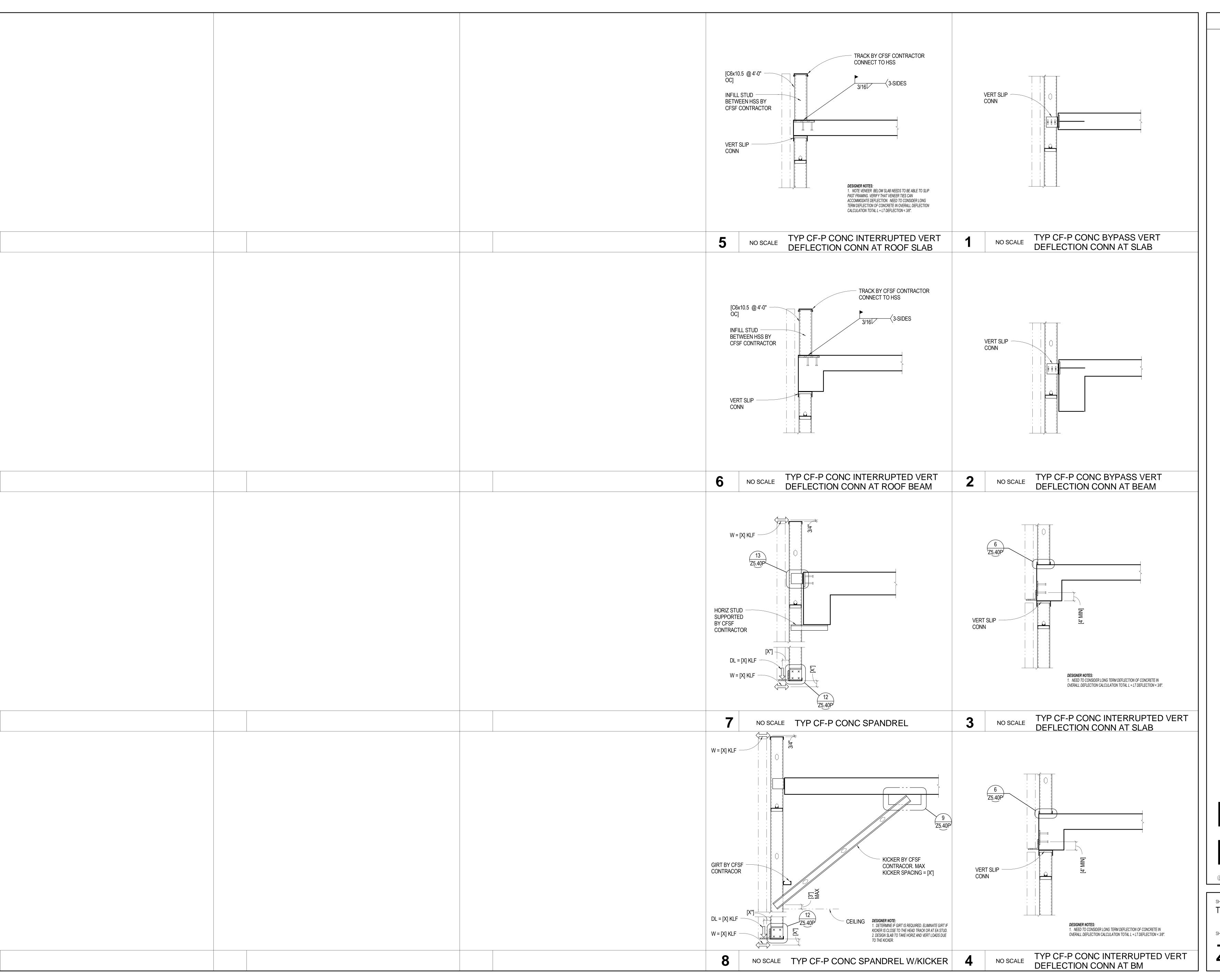
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SHEET TITLE:

TYP ASSEMBLIES

SHFFT NUMBI

Z5.42C



PERFORMANCE SPECIFIED CO STEEL FRAMING (CFSF) GENE ARRANGEMENT DETAILS SUP CIP FRAMING:

SHEET Z5.42CP REPRESENTS DETAILS USED WITH COLD FOI FRAMING. THESE GENERAL A DETAILS ARE MEANT TO BE A FOR THE MOST COMMON EDG WHEN USING A COLD FORMED SYSTEM FOR THE EXTERIOR O THESE DETAILS REPRESENT O PRACTICE AND MUST BE MODI REPRESENT THE ACTUAL GEC SPECIFIC PROJECT. THE INTE THE GEOMETRY OF THE EDGE AND HAVE ALL SPECIFIC CF-TO CONNECTIONS DETAILED ON S THE STRUCTURAL EDGE COND SHOULD BE CUT FROM SHEET COMPLETED DETAILS ON THIS EITHER BE CUT DIRECTLY ON OR ON PARTIAL OR FULL HEIG SECTIONS.

DETAIL NOTES:

1. CF STUD BY-PASS AT CIP SI OR WITHOUT VENEER. USE THE FLOOR AND PARAPET CONDIT YOU CAN RUN THE STUDS PASE FRAMING ON THE OUTSIDE AN TYPICAL OPENINGS IN THE WA PUNCHED. 2. CF STUD BY-PASS AT CIP E

2. CF STUD BY-PASS AT CIP E OR WITHOUT VENEER. USE THE FLOOR AND PARAPET CONDIT YOU CAN RUN THE STUDS PAST FRAMING ON THE OUTSIDE AND TYPICAL OPENINGS IN THE WAR PUNCHED.

3. CF STUD INTERRUPTED BY

3. CF STUD INTERRUPTED BY (
SLAB WITH OR WITHOUT VENE
DETAIL WHERE STUD FRAMING
INFILL BETWEEN FLOORS AND
OPENINGS ARE PUNCHED. EXT
FINISHES SHOULD PREFERABL
AT THE FLOOR LINE.
4. CF STUD INTERRUPTED BY (
BEAM WITH OR WITHOUT VENI
DETAIL WHERE STUD FRAMING

INFILL BETWEEN FLOORS AND OPENINGS ARE PUNCHED. EX FINISHES SHOULD PREFERAB AT THE FLOOR LINE. 5. CF STUD INTERRUPTED BY WITH OR WITHOUT VENEER. U WHERE STUD FRAMING IS USE BETWEEN FLOORS AND YOUR OPENINGS ARE PUNCHED. 6. CF STUD INTERRUPTED BY WITH OR WITHOUT VENEER. U WHERE STUD FRAMING IS USE BETWEEN FLOORS AND YOUR OPENINGS ARE PUNCHED. 7. CF STUD SPANDREL PANEL **EDGE PERIMETER BEAM WITH** VENEER. USE THIS DETAIL IF T EXTENDS LESS THAN [3] BEAM BELOW TOP OF CONCRETE.

8. CF STUD SPANDREL PANEL EDGE PERIMETER BEAM WITH VENEER. USE THIS DETAIL IF TEXTENDS MORE THAN [3] BEAM BELOW TOP OF CONCRETE.

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